

CONTENTS

EDITORIAL

LETTERS TO THE EDITOR

A reader comments on the benefits of inclined bed therapy and vitamin D3, an inventor questions the Australian government's innovations grants program, and an activist calls on the US Bioethics Commission to protect people from non-consensual research by military-intelligence agencies and institutions.

GLOBAL NEWS

We report on new evidence for a ninth planet, fears that the MMR-autism link may be true, a teenager who used stars to locate a lost Mayan city, missing child refugees in Europe, Canada's genocide, brain genes damaged by fructose, data storage on DNA, Portugal's success with decriminalising drugs, the reason for the 2011 attack on Libya, EMFs and bee colony collapse disorder, and more.

MKULTRA, BIOWEAPONS AND EMPIRE — Part 2 of 2

By Jack Heart and Orage. Biological and chemical weapon agents developed in university and military laboratories were tested on unwitting civilian populations and armed forces personnel in the USA, the UK and elsewhere with no concern for their toxic effects.

ANCIENT KNOWLEDGE OF LEUKOCYTES

By Dr Paul Lloyd. Physicians in antiquity and prior to the mid-17th century knew the importance of the blood humour for good health and immunity. They were aware of leukocytes, or white blood cells, and even prescribed foods that enhanced the production of these cells.

HIV POSITIVE, NO TREATMENT...AND HEALTHY!

By Pryska Ducoeurjoly. Many people with HIV and no symptoms have studied the flaws in the HIV=AIDS theory and stopped taking their medications—without any harmful effects. Health authorities recommend drug therapy from the first sign of HIV diagnosis, despite the unreliability of testing methods.

FREEMASONRY, ESOTERIC SCIENCE AND UFOs

An interview by Robert Guffey. Retired military scientist and engineer Richard Schowengerdt, who was awarded a patent for an electro-optical camouflage system, shares his thoughts on the link between science and mysticism as well as on the cloaking abilities of UFOs.

SCIENCE NEWS

Thomas Joseph Brown pays tribute to the late Trevor James Constable, maritime radio officer, aviation historian and trailblazing etheric weather engineer. Constable photographed sky "critters" on infrared film in the 1950s and developed rain-making devices based on sacred geometry and utilising atmospheric orgone energy.

LEAVING APOLLO'S LEGACY BEHIND

By Phil Kouts. A Mars fly-by is actively promoted as a viable, practical goal, but NASA's two systems for travelling beyond low Earth orbit are not sufficient even to "return" to the Moon. Agency insiders admit that an international collaborative effort is needed to solve human deep-space exploration problems.

THE TWILIGHT ZONE

We feature a collection of modern-era reports of pterodactyl sightings in Africa and recent accounts of legendary Thunderbird activity in Pennsylvania, USA.

REVIEWS-Books

"You Are Your Own Best Medicine" by Frédéric Saldmann, MD
"Becoming Nature" by Tamarack Song
"Wild by Design...Life-Enhancing Landscapes" by Margie Ruddick
"The Grail Cypher...Arthurian History Revealed" by Ralph Ellis
"Stone Medicine: A Chinese Medical Guide..." by Leslie J. Franks
"The UFO Dossier: 100 Years of...Cover-Ups" by Kevin D. Randle
"Sapiens Rising: The View from 2100" by Neil Freer
"Our Dolphin Ancestors...Lost Knowledge" by Frank Joseph
"Between A Rock & A Hard Place" by Steven and Evan Strong
"Priorities for a Planet in Transition" by Gerard Aartsen
"Hidden History, Rain Engineering..." by Trevor James Constable
"Portal to the Dreamtime" by John Koch
"Insiders Reveal Secret Space Programs..." by M. E. Salla, PhD
"A New World – Book 1" by Jonathan R. Banks

REVIEWS-DVDs

"Evanescent" by Mark Abriel for LightWave Films

"Vaxxed: From Cover-Up to Catastrophe" by Andrew Wakefield

REVIEWS-Music

"Planted" by Moxie

"Road Trip" by Zen Bicycle Band

"Flames of Love" by Paul Cheneour & Dilly Meah

"The Untied Knot" by Shooglenifty

CARTOONS



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Editorial

Welcome again to the ever-changing world of NEXUS, a magazine that regularly dares to have its deadline on Friday the 13th, as well as a magazine that regularly dares to challenge the consensus reality of the mainstream.

One of the early features in NEXUS was about the emerging cashless society. In vol. 2, no. 4, we published an extract from Australia's Parliamentary Paper No. 173, "Towards a Cashless Society: A Report to the Prime Minister", which was tabled on 12 June 1986. It details the use of a cashless system as an accurate and nonintrusive data surveillance system; and looking through the examples given, there is very little about a person's life that is not revealed from their spending and purchasing history. A person's political, sexual and religious persuasions are easily deduced, as are any illegal activities. This was before the advent of the Internet, which if combined with the above gives a total picture of a person's life and actions in society. Now, with the growing use of artificial intelligence (AI), all the above and more are being used for predictive behaviour and modelling. The day when you may be detained and given "therapy" to prevent a crime is rapidly approaching.

Keeping up with all the changes to technology and privacy is a huge challenge. For example, most people have no idea that hundreds of millions of news stories churned out by the mainstream media are actually "written" by "bots" or AI. There is zero human intervention or checking, and it is near impossible, even for experienced writers and editors, to tell the difference. I should point out that the majority of these AI-written items deal with sport, finance and weather, but be warned: AI-written poetry is also so advanced that most humans cannot discern the difference here, either.

Speaking of media trends, I note an increase in what looks like "preparatory info" on the topic of "Are we alone?", with announcements that there may be another planet in our solar system, that astronomers have discovered dozens more Earth-like planets, that there was once water on Mars, etc. The tone of these articles as well as statements by various world leaders suggests that there is an agenda to tell us gradually that we are not alone in the universe.

Meanwhile, back down here on Earth, I'm happy to see that so many of the HIV-positive people who shunned AZT and other "AIDS drugs" are alive and well. I can testify to several examples where the partner who was diagnosed HIV+ and took the drugs died within a year or two. Of those who took the other path, i.e., strengthened their immune system and avoided AZT-like drugs, most are still alive and experience good health. Putting it simply, it is the drugs that lead to death in "AIDS" patients; the HIV does not. (I'm sure I don't need to inform NEXUS readers that AIDS is not caused by HIV anyway!)

On the matter of health, I'm absolutely fascinated by the thinking and treatments of physicians from days of old. As usual, we are told that the further back in time you go, the more primitive was humanity's understanding of everything. Once again, were finding that the opposite is true.

Speaking of going back in time, the sightings of pterodactyls continue to this day. In Twilight Zone, we look at modern accounts from Africa plus more recent reports from the USA. Not covered are the many sightings from parts of Papua New Guinea.

Finally, a reminder about the NEXUS Conference in June. If you can't attend in person, why not tune in via our website—either live or later. Cheers!

Duncan

Letters to the Editor ...

Inclined Bed Therapy

Dear Editor:

I have been reading your article in NEXUS vol. 23, no. 3 about tilted beds. I did try this when I found myself single again in the 1980s, but I don't recall finding much to convince me to continue doing it. However, I feel that the item of yours that I am now reading suggests a somewhat greater degree of tilt beyond that of using a house brick at about three inches' thickness in the old Imperial units.

Your article renewed my interest in such thoughts, so I tried jacking up the head end to twice that height—six to seven inches—wondering at what point of an increase would I slide gracefully downhill in the night!

After three nights, I can report that I have slept wonderfully, mainly on my back, and have not felt such good sleep for quite some time. At seventy-six, I am not too decrepit that a bit of experimentation is avoided in life. I reckon to try anything once and make a decision later.

Keep up the Good Work, all at NEXUS.

PS: Your article a year or so back on vitamin D3 [NEXUS 20/04] made one of the biggest improvements in my world of digestive processes and general health.

Sincerely,

G. L. J., Wales, UK

Gemini Technology Stymied

Is the Australian government serious about innovation? There have been many media headlines about the subject, but to date there is not one government grants program that provides money to the individual inventor, whereas millions of dollars have been made available to assist venture capitalists, who invent nothing.

In a series of legal cases and appeals since 2009, Australia's brightest legal minds and judiciary have ruled that John Patrick Ettridge, with more than 50 patents granted to him, who is the inventor of a gold medal international award-winning invention, the Gemini Electric Motor and Generator, a state-of-the-art electric motor and generator, with patents granted for the technology (for details, see geminielectricmotor.com), was not an employee of his own company.

This is in spite of the fact that their own forensic accountant had reported: "1. The claimant was appointed sole company director and secretary on 1 May 2000; 2. The claimant is the only employee of the company, and under the heading 'Deemed Working Director'. The claimant advised the following regarding his employment relationship with the company: 1. He works approximately 50 hours per week and works seven days per week. 2. His normal day-to-day duties comprise inventing and creating electric motors, and administration and management of the company. During the course of my investigations I have not discovered any information to contradict the above assertions. The claimant would be deemed a working director under the Act." We all like a good conspiracy, but if Mr Ettridge is not doing all the work, who is?

The electric motor market worldwide in 2015 was estimated at \$120 billion, the generator market worldwide in 2015 was also estimated at \$120 billion. One per cent of that market would equate to more than 100,000-plus real, full-time paid manufacturing jobs, plus jobs in associated industries.

The Gemini technology patents have been lost due to non-payment of renewal fees and pursuing compensation through the courts.

Nobody would try to manufacture in Australia with all the free trade agreements that the government has agreed

to, and not knowing what laws they need to comply with, with the knowledge that the judiciary will ignore Hansard and government legislation and make up their own laws.

If you require additional information, please send me an email.

Regards,

John Patrick Ettridge,
Adelaide, Australia,
email jpettridge@picknowl.com.au

Non-Consensual Research

Dear NEXUS:

Please note the following letter.

Dear Bioethics Commission,

I would like to thank this commission for their efforts to recommend ethical protections for human subjects.

Ethical protections for human subjects are essential considering the past history of non-consensual research by US military and intelligence agencies in collaboration with educational institutions, drug companies, medical schools and hospitals, the American Psychological Association, the National Institutes of Health, the Veterans Administration Center, the US Public Health Service and others.

Examples of past non-consensual experimentation include the Tuskegee Syphilis Experiment, the Manhattan Project, the Willowbrook Experiment and radiation experiments.

Mind control experiments such as projects CHATTER, BLUEBIRD, ARTICHOKE, MKULTRA, MKSEARCH, MKNAOMI and others were often interwoven with radiation experiments and research on chemical and biological weapons.

As previously reported to this commission in 2011 and continuing to be reported in increasing numbers to this day, United States citizens and others are reporting non-consensual experimentation including remote experimentation and torture.

In 2011, it was reported to this commission that there were approximately 3,000 known victims. Four years later, those numbers have grown to 4,000 to 5,000 victims, an increase of at least 33 per cent. I have brought with me over 60 of their statements.

Non-consensual victims of experimentation have experienced covert COINTELPRO-type tactics including those used in Project MKDELTA.

MKDELTA materials were used for harassment, discrediting or disabling purposes.

Due to past history, previous testimony and statements provided to this commission, and continuing reports of non-consensual research, ethical protections for human subjects in the form of regulatory changes are critical.

As I understand Subpart A of the US Department of Health and Human Services' regulations, Protection of Human Subjects (codified at 45 CFR Part 46), also known as the Common Rule, loopholes allow for experimentation when there is no physical intervention or interaction with the subject by an investigator, as occurs in remote experimentation and previously reported to this commission by victims, or when the identity of the subject is unknown to the investigator (for example, Subject 9,543).

Also, there is no oversight for some non-federal entities such as private corporations and contractors and foreign entities as well as some federal departments and agencies. Oversight is needed for all entities conducting research on American citizens and US persons as well as for research conducted on foreign soil.

Additionally, research activities are permitted for some demonstration and service programs for public benefit; department or agency heads can waive consent in certain cases; institutions can register their own institutional review board (IRB); and IRBs can waive consent in certain instances. There are other loopholes not described here. Additional protections are also needed for children, prisoners and those of impaired consent.

In light of the testimony given in 2011 and existing loopholes in federal regulations, I was shocked and dismayed that the only notable recommendation the Bioethics Commission made regarding the consent process is to add people of impaired consent. Ethical protections for human subjects necessitate regulatory changes.

After experiencing painful vibrations in my forehead with associated blood in my mucus, vibrations of my organs and more, I sought help in the form of testing.

Test results included materials specifically used in the manufacture of Neural Dust, as researched and developed by the University of California, Berkeley. Neural Dust is an ultrasonic, low-power, implantable form of brain-machine interface which as originally designed includes a subdural transceiver, an external transceiver and CMOS chips implanted into the cortex.

The University of California has collaborative agreements with Temple University, which in turn has collaborative agreements with Dartmouth [College] and Dartmouth-Hitchcock Hospital, where I had surgery on my nose and face.

Additionally, an ELF/EMF scan found 20 sites on my body that emit EMF [electromagnetic fields] beyond normal for the human body and consistent with implants. Also, the scan showed my body receiving governmental frequencies that were not observed during ambient conditions; my body was acting as a receiver.

This is only one example of the continued collaboration between United States government agencies and others who receive funding from those agencies.

I do not consent to nor have I knowingly consented to any form of research, experimentation or implantation.

Not everyone can afford to pay for testing, nor should we have to. We need the medical community to evaluate our medical complaints in a scientific manner and not subjectively rule out complaints as mental illness. We also need an investigation into our complaints of non-consensual research and covert psychological operations.

In addition to regulatory changes, criminal penalties must be legislated for research involving human subjects when bodily integrity and autonomy are violated, as for other criminals who are routinely punished with convictions for assault, fraud and homicide. Unethical treatment of human beings can only be prosecuted when laws and regulations are in place.

Even if a researcher, physician, institution or other is engaged in socially beneficial research that might lead to cures or treatments for devastating diseases, it is imperative that each person's autonomy, self determination, human dignity and constitutional rights prevail over scientific advancement and social benefit.

Over fifty years ago, American citizens reported being victims of non-consensual human experimentation and reports continue to this day. Over fifty years later, we still don't have the necessary reforms to protect US citizens and others from non-consensual research. As a society, we must ensure that research subjects possess human rights that are inviolate.

This commission includes members of institutions that have participated in unethical research in the past. This commission does not include a single victim of non-consensual research. They have the insight that only a victim could impart.

Thank you for your efforts to recommend ethical protections for human subjects. Much work still remains to be done.

Sincerely,

Karla Smith, USA



NEW EVIDENCE FOR PLANET NINE Baffles ASTRONOMERS

Astronomers at the Harvard-Smithsonian Center for Astrophysics (CfA) have presented new research pointing to the existence of an undiscovered ninth planet in the solar system.

"Evidence points to Planet Nine existing, but we cannot explain for certain how it was produced," said CfA astronomer Gongjie Li, the lead author of the research, accepted for publication in *The Astrophysical Journal Letters*.

The revelations mark the second time this year that scientists have proposed evidence for the existence of a Neptune-mass planet in an elliptical orbit 10 times farther from our Sun than Pluto.

The same theorists remain confused about how this planet ended up in and has maintained such a distant gravitational orbit. Astronomers ponder whether the planet formed within the solar system or whether it drifted into its present orbit from afar.



A planet with 10 times the mass of Earth may be orbiting the Sun beyond Neptune. This image shows the theorised orbit of the giant planet and six other solar system objects beyond Neptune. (Source: Caltech/R. Hurt [IPAC])

Computer simulations suggest the most likely scenario involves a passing star tugging Planet Nine outward into our solar system.

However, in a separate publication in *The Astrophysical Journal*, another CfA astronomer, Scott Kenyon, and co-author Benjamin Bromley, a University of Utah researcher, postulate that the solar system produced “an extra gas giant”.

Astronomers remain bemused about Planet Nine’s genesis and present location, but nonetheless they are convinced that a ninth planet exists, somewhere out there. (Source: SputnikNews.com, 4 May 2016, <http://tinyurl.com/jdnlg53>)

MAGNETITE FORMED BY BACTERIA?

The tiny granules of magnetite found in magnetised sediments come in various crystalline forms. Inorganic magnetite precipitated from molten rock is octahedral, while the particles manufactured by bacteria are cubes, hexagonal prisms or noncrystalline teardrops.

The magnetite found in marine sediments appears to be organically formed— at least the shapes of the particles are characteristic of bacterial manufacture.

Apparently these industrious bacteria have been busy producing magnetite ever since “lowly” life forms appeared in the Precambrian.

These facts pose at least four questions:

- How much of the Earth’s iron ore has been concentrated biologically, and is there a connection with the Gaia hypothesis?
- Is it possible that magnetic field reversals, now believed to be of purely geophysical origin, might be biological artefacts (that is, due to population and/or species changes of magnetic bacteria)?
- If magnetic field reversals are of geophysical origin, how do the magnetic bacteria find their food sources during

the long periods of near-zero field?

- Laboratory experiments prove that magnetic bacteria require free oxygen to secrete magnetite, but the Precambrian atmosphere and oceans were supposedly devoid of oxygen until 2.3 billion years ago. How did the magnetic bacteria prosper before then?

(Reference: C. Simon, "Tiniest Fossils May Record Magnetic Field", Science News 1983; 124:308)

(Source: Science Frontiers, no. 31, Jan-Feb 1984, <http://tinyurl.com/zcfsoza>.)

FORMER SCIENCE CHIEF: 'MMR VACCINE FEARS COMING TRUE'

A former UK government medical officer responsible for deciding whether medicines are safe has accused the government of "utterly inexplicable complacency" over the MMR triple vaccine for children.

Dr Peter Fletcher, who was Chief Scientific Officer at the Department of Health (DoH), said that if it is proved that the jab causes autism then "the refusal by governments to evaluate the risks properly will make this one of the greatest scandals in medical history".

After agreeing to be an expert witness on drug-safety trials for parents' lawyers, he received and studied thousands of documents relating to the case which he believed the public had a right to see. He said he has seen a "steady accumulation of evidence" from scientists worldwide that the measles, mumps and rubella (MMR) jab is causing brain damage in certain children. But he added: "There are very powerful people in positions of great authority in Britain and elsewhere who have staked their reputations and careers on the safety of MMR and they are willing to do almost anything to protect themselves."

In the late 1970s, Dr Fletcher served as Chief Scientific Officer at the DoH and Medical Assessor to the Committee on Safety of Medicines, meaning that he was responsible for deciding if new vaccines were safe.

He first expressed concerns about MMR in 2001, saying that safety trials before the vaccine's introduction in Britain were inadequate.

Now, the rising tide of autism cases and the growing scientific understanding of autism-related bowel disease have convinced him that the MMR vaccine may be to blame.

"Clinical and scientific data is steadily accumulating that the live measles virus in MMR can cause brain, gut and immune system damage in a subset of vulnerable children," Dr Fletcher said.

"...[T]here has been a tenfold increase in autism and related forms of brain damage over the past 15 years, roughly coinciding with MMR's introduction, and an extremely worrying increase in childhood inflammatory bowel diseases and immune disorders such as diabetes, and no one in authority will even admit it's happening, let alone try to investigate the causes."

He said there is "no way" that the tenfold leap in autistic children could be the result of better recognition and definitional changes, as claimed by health authorities.

Now retired after a distinguished 40-year career in science and medicine in Britain, Europe and the USA, Dr Fletcher said that without more research, health authorities could not possibly rule out fears about MMR.

He called the sudden termination of legal aid to parents of allegedly vaccine-damaged children in late 2003 "a monstrous injustice".

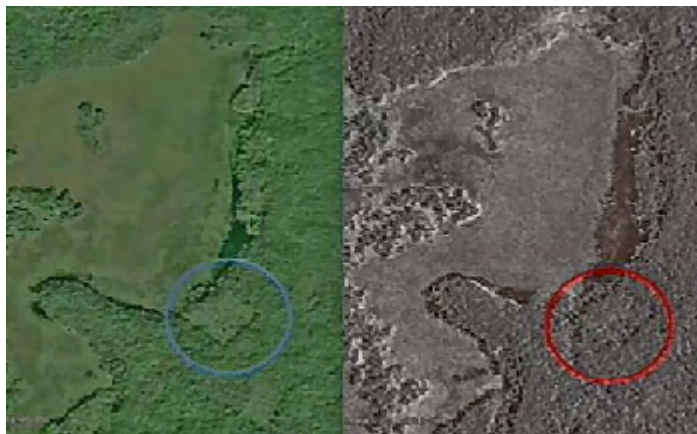
(Source: DailyMail.co.uk, 29 March 2016, <http://tinyurl.com/bt3yox>.)

CANADIAN TEEN USES STARS TO LOCATE LOST MAYAN CITY

A 15-year-old boy from Canada has discovered what could be the ruins of a lost 4,600-year-old city in Mexico by comparing ancient star charts and the positions of known Mayan ruins. He wanted to understand how the Mayans chose where to build their cities. He turned to the stars to try to find the answer and came up with a compelling theory.

"The Mayans were extremely good builders, but they often built in places that made little practical sense—far from rivers, far from fertile areas. It seemed strange for a civilisation that was so intelligent," William Gadoury told CBC News.

"I knew they were good at astronomy, so I tried to make the link."



A satellite image (left) added weight to William Gadoury's theory, which he developed using Google Earth images (right), that he had found the platform of a lost Mayan city. (Source: William Gadoury/CSA/Google)

Gadoury studied 22 Mayan constellations and found that when they were overlaid on a map they matched the placement of 117 known cities, but a 23rd constellation was incomplete.

"I realised then that one city hadn't been discovered," Gadoury said. (Source: CBCNews, 10 May 2016, <http://tinyurl.com/hesqbcn>.)

10,000+ REFUGEE CHILDREN ARE MISSING, SAYS EUROPOL

At least 10,000 unaccompanied child refugees have disappeared after arriving in Europe, according to the European Union's criminal intelligence agency. Many are feared to have fallen into the hands of organised trafficking syndicates.

In the first attempt by law enforcement agencies to quantify one of the most worrying aspects of the migrant crisis, Europol's chief of staff Brian Donald told the Observer that thousands of vulnerable minors had vanished after registering with state authorities.

Donald said that 5,000 children had disappeared in Italy alone, while another 1,000 were unaccounted for in Sweden. He warned that a sophisticated pan-European "criminal infrastructure" is now targeting refugees.

"It's not unreasonable to say that we're looking at 10,000-plus children. Not all of them will be criminally exploited; some might have been passed on to family members. We just don't know where they are, what they're doing or whom they are with," he noted.

"Whether they are registered or not, we're talking about 270,000 children. Not all of those are unaccompanied, but we also have evidence that a large proportion might be," said Donald, indicating that the 10,000 figure is likely to be a conservative estimate of the actual number of unaccompanied minors who have disappeared since entering Europe.

In October, officials in Trelleborg, southern Sweden, revealed that some 1,000 unaccompanied refugee children who had arrived in the port town over the previous month had gone missing. On Tuesday [26 January] a separate report, again from Sweden, warned that many unaccompanied refugees have vanished and that there is "very little

information about what happens after the disappearance”.

An entire criminal infrastructure has developed over the past 18 months around exploiting the migrant flow. In the UK, the number of children who disappear soon after arriving as asylum seekers has doubled over the past year, raising fears that they are also being targeted by criminal gangs.

(Source: TheGuardian.com, 31 January 2016, <http://tinyurl.com/z4nn4uf>.)

KUWAIT TO DNA TEST AND TAG ALL TOURISTS

All visitors and tourists to Kuwait will now have to submit to a DNA test and be DNA tagged before they're allowed to enter the Persian Gulf state.

Kuwait wants to DNA “tag” everybody in as well as entering the country under the new DNA law that will go into effect this year. Kuwait’s National Assembly passed the DNA testing law on 2 July 2015. The government said that forced DNA testing won’t affect “personal freedoms and privacy” but will be done to fight terrorism and keep track of people if they commit crimes.

Tourists and visitors to Kuwait will have their DNA taken through specimens of saliva or a few drops of blood at a special collection facility at Kuwait International Airport. There will be “consequences of rejecting its procedures” for visitors who refuse the mandatory test.

Citizens will be tested at mobile testing centres that will move through the state, and residents will have their DNA captured during medical examinations when they apply for visa issuing or renewing.

According to the Kuwait Times, the DNA testing law is “aimed at creating an integrated security database”. The law—the first of its kind in the world—and the DNA tagging will be used for “criminal security purposes”, for matching DNA in paternity cases and in the event of natural disasters or major incidents.

Kuwaiti officials noted: “The mandatory DNA tests only target non-encrypted genes that are not affected by diseases. The test is not done to diagnose any disease or obtain medical information because such information is part of individuals’ privacy and the law bans access to it.”

(Source: News24.com, 23 April 2016, <http://tinyurl.com/zx43smz>; KuwaitTimes.net, 23 January 2016, <http://tinyurl.com/hsqmybc>.)

CANADA’S GENOCIDE OF MILLIONS OF INDIGENOUS CHILDREN IS OFFICIAL

The Chief Justice of the Supreme Court of Canada, Beverley McLachlin, has acknowledged that Canada tried to commit cultural genocide against its indigenous people, having developed a policy of excluding them and destroying their culture.

At the beginning of June 2015, the Truth and Reconciliation Commission of Canada (TRC) published a report, having gathered testimonies from over 6,750 survivors and former employees of the Canadian residential schools for the indigenous population.

According to the TRC report: “The Canadian government pursued this policy of cultural genocide because it wished to divest itself of its legal and financial obligations to Aboriginal people and gain control over their land and resources.”

This panel was set up in 2009, tasked with exploring the history and legacy of the native schools. However, the process encountered several challenges, notably confrontations with the federal government over obtaining documents as well as replacing members of the Commission.

According to Justice Murray Sinclair, who chaired this working group, the number of children who died is barely an estimate; it is likely that there have been many more victims in these schools, established in the 19th century. Justice Sinclair indicated that between 24 and 42 per cent of indigenous children who attended these residential

schools died there or shortly after they left.

It was estimated prior to the release of the TRC report that four million indigenous children died in these institutions.

(Source: VoltaireNet.org, 25 April 2016, <http://tinyurl.com/h5yhctc>; "Honouring the Truth, Reconciling for the Future", report, June 2015, <http://tinyurl.com/zfw8wd7>.)

FRUCTOSE ALTERS HUNDREDS OF BRAIN GENES, LEADING TO A WIDE RANGE OF DISEASES

Many diseases—from diabetes to cardiovascular disease, and from Alzheimer's disease to attention deficit hyperactivity disorder—are linked to changes to genes in the brain. A new study by University of California, Los Angeles (UCLA), life scientists has found that hundreds of those genes can be damaged by fructose, a sugar that's common in the Western diet, in a way that could lead to those diseases.

However, the researchers discovered good news as well: an omega-3 fatty acid known as docosahexaenoic acid, or DHA, seems to reverse the harmful changes produced by fructose.

"DHA changes not just one or two genes; it seems to push the entire gene pattern back to normal, which is remarkable," said Dr Xia Yang, a senior author of the study and a UCLA assistant professor of integrative biology and physiology. "And we can see why it has such a powerful effect."



DHA occurs naturally in the membranes of our brain cells, but not in a large enough quantity to help fight diseases. It strengthens synapses in the brain and enhances learning and memory.

It is abundant in wild salmon (but not in farmed salmon) and, to a lesser extent, in other fish and fish oil as well as walnuts, flaxseed, fruits and vegetables, said Dr Fernando Gomez-Pinilla, who also is a member of UCLA's Brain Injury Research Center, Americans obtain most of their fructose from foods sweetened with high-fructose corn syrup, an inexpensive liquid sweetener made from corn starch, and from sweetened drinks, syrups, honey and desserts.

Fructose is also found in most baby food and in fruit, although the fibre in fruit substantially slows the body's absorption of the sugar— and fruit contains other healthy components that protect the brain and body, Yang said.

The research also found that fructose removes or adds a biochemical group to cytosine, one of the four nucleotides

that make up DNA.

"Food is like a pharmaceutical compound that affects the brain," said Gomez-Pinilla. He recommends avoiding sugary soft drinks, cutting down on desserts and consuming less sugar and saturated fat.

(Source: ScienceDaily.com, 22 April 2016, <http://tinyurl.com/gkvhwer>.)

FORMER DARPA SCIENTIST WARNS OF LETHAL EFFECTS FROM ILLEGAL SIGNAL TRANSMISSIONS IN FLORIDA

A former senior scientist with the US Defense Advanced Research Projects Agency (DARPA), Dr Paul Batcho, asserts that cellphone towers pose an intentional and immediate threat against the general public of the United States.

Dr Batcho, who worked at Los Alamos and held a top-secret security clearance, asserts that clandestine forces are purposely engaging in "acts of terrorism" against the general public through emission of dangerous frequencies from cellphone and microwave towers in parts of Florida, USA.

The following is a compilation of edited extracts from emails sent by Dr Batcho to the US Department of Homeland Security and DARPA.

"ATTN: Telecommunication threat security office, Homeland Security [8 and 24 April 2016]

I would like to bring to your attention an ongoing threat with regards to harmful communications transmitting from the cellular towers in central Florida, and Tampa St Petersburg. It is not clear to me whether it is due to the USCENTCOM in Tampa or it is targeting US civilians.

I am a PhD from Princeton University and a former scientist from Los Alamos National Laboratory in New Mexico, where I worked within nuclear weapon research teams. I held a Q clearance (top-secret equivalent of DoD). I have also worked on DARPA research projects as a senior scientist.

I seem to have stumbled across an advanced technology that I would classify as synthetic telepathy. It clearly uses the cellular towers to transmit illegal signals. It sounds unbelievable but it is actual technology being used on civilians of the US.

There is a technology transmitting RF [radio frequency] signals and communications at the human brain resonant frequency bands, and it is targeting individuals and groups.

These transmissions will cause harmful health effects in the form of enhanced microwave radiation illness. It is imperative that these frequency bands be measured and verified by an official source. These frequency bands do not exist naturally...

My basic research does indicate that such technology can exist and dates back to the V2K (P300) mind-wave technology of the 1970s. This does appear to be a much more advanced version that allows open communication of human mind-to-mind bridges.

Cellular transmissions broadcast at 853 MHz, human brain resonance is centered around 450 Mhz, and Ham radio operators are not allowed to broadcast at the 400 MHz to 700 MHz band. I would suggest a filtering at the 400 MHz to 700 MHz band on all microwave and cellular transmissions; digital filters should suffice in the near term."

"ATTN: DARPA Security & Intelligence [31 March 2016]

This is a follow-up to my previous emails on the illegal transmissions of signals from cellular and microwave transmission towers.

The technology being used is clearly based on the methods outlined in the following patents based on microwave transmission directed at human brain frequencies.

The active technology has been in use for approximately 3 1/2 years, roughly corresponding to the expiry of the 1992 and 1994 patents funded by DARPA:

US Patent #5,123,844, June 23, 1992 US Patent #5,289,438, Feb. 22, 1994.

These systems stimulate the brain with [radio] frequencies and wave forms. This is not CDMA 450 MHz: 450 MHz-470 MHz transmissions.

There is unlawful use of the various lethal aspects of the technology. The technology is active and civilians are being targeted, with harmful health effects.

Please investigate the transmission of the various frequency signals in the 450 MHz range. The band from 437 MHz to 478 MHz with peaks at roughly 6 MHz intervals appears to have sizable spectral energy components.

Please feel free to contact me.

Thank you.

Paul F. Batcho, PhD
St Petersburg, FL"

(Source: TheCommonSenseShow.com, 9 April 2016, <http://tinyurl.com/jnvnyuu>.)

SALTS IN THE BRAIN CONTROL OUR SLEEP-WAKE CYCLE

For the first time, researchers have shown that the level of salts in our body and brain differ depending on whether we are asleep or awake. A new study from the University of Copenhagen, Denmark, reveals that by influencing the level of salts, it is possible to control the sleep-wake cycle.

"These salts play a much larger and much more decisive role than hitherto imagined. The discovery reveals a completely new layer of understanding of how the brain functions. First and foremost, we learn more about how sleep is controlled. It may, however, also open up for a better future understanding of why some people suffer convulsive fits when staying awake all through the night," says Professor Maiken Nedergaard from the Center for Basic and Translational Neuroscience at the University of Copenhagen.

"It's much simpler than previously believed in brain research. The research conducted used to focus only on the brain's neural activity as a means of mapping and analysing complicated processes such as being asleep or awake. Our study shows that the brain uses something as simple as changing the level of salts to control whether we are asleep or awake. This discovery reveals that studying only neurons in order to understand brain activity is not enough. We must include all the supportive cells, especially the so-called astrocytes, which regulate the level of salts in the brain. The brain is more than a group of neurons that function like a computer. The fact that the brain needs 7-8 hours of sleep to function well on a daily basis reveals that there's much more we need to understand, aside from neurocomputation," Professor Nedergaard concludes.

(Source: ScienceNewsline.com, 29 April 2016, <http://tinyurl.com/zr9h8ew>.)

SHELF LIFE OF 1,000+ YEARS: MICROSOFT BUYS SYNTHETIC DNA FOR DATA STORAGE

Microsoft has purchased 10 million strands of synthetic DNA to advance cutting-edge digital data storage technology. With the amount of digital data doubling nearly every two years, the tech industry is on a quest for a longterm solution to keep track.

"[The] vast majority of digital data is stored on media that has a finite shelf life and periodically needs to be re-encoded. DNA is a promising storage media, as it has a known shelf life of several thousand years, offers a permanent storage and can be read for continuously decreasing costs," said Emily Leproust, CEO of Twist Bioscience, in a statement.

As the digital universe is expected to hit 44 trillion gigabytes by 2020, Twist Bioscience argues that using DNA for archival purposes solves the twin problems of limited lifespan and low data density when data is normally stored on a hard drive.

A single gram of DNA can store almost one trillion gigabytes (almost a zettabyte) of digital data. The idea of storing data in DNA was first put forward in 2012 by Harvard geneticist George Church, who encoded an entire book in DNA.



Twist Bioscience built its own machines to mass produce the synthetic DNA. Previously, it manufactured novel bits of DNA to place into microbes to perform useful chemical processes, such as producing desirable nutrients. A custom DNA sequence costs about 10 cents per base, but Twist Bioscience hopes to get that cost down to two cents.

Before the purchase, Microsoft and Twist Bioscience conducted a test phase to encode and recover 100 per cent of digital data from silicon-based synthetic DNA. The data is translated into genetic code of base pairs of As, Cs, Gs and Ts that represent the chemical blocks of DNA.

"They give us the DNA sequence; we make the DNA from scratch," Twist Bioscience CEO Emily Leproust told IEEE Spectrum. She said they didn't know what they were coding, as they didn't have the decoder key.

Sequencing DNA has become cheap and easy in the past two decades. The Human Genome Project, which ran from 1990 to 2003, cost about US\$3 billion. The same task can now be done for about \$1,000. Recently, the American Chemical Society said that data stored on DNA could last up to 2,000 years without deterioration.

(Source: RussiaToday.com, 29 April 2016, <http://tinyurl.com/hcy52ow>)

PORTUGAL'S EXAMPLE: WHAT HAPPENED AFTER IT DECRIMINALISED ALL DRUGS FROM WEED TO HEROIN

Sixteen years ago, Portugal decriminalised the possession of all drugs—everything from marijuana to heroin. By most measures, the move has paid off.

Today, Portuguese authorities don't arrest anyone found holding what's considered less than a 10-day supply of an illicit drug—a gram of heroin, ecstasy or amphetamine, two grams of cocaine, or 25 grams of cannabis. Instead, drug offenders receive a citation and are ordered to appear before so-called "dissuasion panels" made up of legal, social and psychological experts. Most cases are simply suspended. Individuals who repeatedly come before the panels may be prescribed treatment, ranging from motivational counselling to opiate substitution therapy.

"We had a lot of criticism at first," recalled Joao Goulao, MD, a physician specialising in addiction treatment whose work led Portugal to reform its drug laws in 2000 and who is today its national drugs coordinator. After decriminalising, the first enquiries Portugal received from the International Narcotics Control Board—the quasi-judicial UN oversight body established by the UN drug convention system—were sharp and scolding.

"Now things have changed completely," he went on. "We are pointed to as an example of best practices inside the spirit of the conventions."

Indeed, Werner Sipp, the new head of the board, said as much at the UN's Commission on Narcotic Drugs in Vienna earlier this year.

Though often narrowly assessed in reference to its decriminalisation law, Portugal's experience over the last decade and a half speaks as much to its free public health system, extensive treatment programs and the hard-to-quantify trickle-down effects of the legislation. In a society where drugs are less stigmatised, problem users are more likely to seek out care. Police, even if they suspect someone of using drugs, are less likely to bother them. Though at least 25 countries have introduced some form of decriminalisation, Portugal's holistic model and its use of dissuasion panels sets it apart.

The rate of new HIV infections in Portugal has fallen precipitously since 2001, the year its law took effect, declining from 1,016 cases to only 56 in 2012. Overdose deaths decreased from 80 in the year that decriminalisation was enacted to only 16 in 2012. In the US, by comparison, more than 14,000 people died in 2014 from prescription opioid overdoses alone.

Portugal's current drug-induced death rate, three per million residents, is more than five times lower than the European Union's average of 17.3, according to EU figures.



When Portugal decided to decriminalise in 2000, many sceptics assumed that the number of users would skyrocket. That did not happen. With some exceptions, including a marginal increase among adolescents, drug use has fallen over the past 15 years and now ebbs and flows within overall trends in Europe.

Portuguese officials estimate that by the late 1990s roughly one per cent of Portugal's population, around 100,000 people, were heroin users. Dr Goulao said that today "we estimate that we have 50,000, most of them under substitution treatment".

When Portugal decriminalised, UN member states were just years removed from a 1998 Special Session of the General Assembly that convened under the fanciful pretext of eliminating drug use worldwide. On Tuesday [19 April], member states adopted a new outcome document that is meant to reposition drug policy. It stops short of what many advocates would have liked, excluding the actual words "harm reduction" while failing to address the death penalty for drug offenders, which member states noted repeatedly. The document reflects an evolution in drug policy in many parts of the world over the last two decades, but is also a testament to the continued influence of conservative countries that still favour interdiction.

(Source: Vice News, 20 April 2016, <http://tinyurl.com/zkhao4w>.)

THE REAL REASON FOR THE DESTRUCTION OF LIBYA

WikiLeaks has released an unclassified US Department of State document emailed to Hillary Clinton from Sidney Blumenthal dated 2 April 2011, which confirms that the attack on Libya had nothing to do with Muammar al-Qaddafi being a threat and everything to do with looting his gold and silver.

"Qaddafi's government holds 143 tons of gold, and a similar amount in silver. During late March, 2011, these stocks were moved to Sabha (south west in the direction of the Libyan border with Niger and Chad); taken from the vaults

of the Libyan Central Bank in Tripoli," Blumenthal reported to Clinton.

"This gold was accumulated prior to the current rebellion and was intended to be used to establish a pan-African currency based on the Libyan golden Dinar. This plan was designed to provide the Francophone African Countries with an alternative to the French franc (CFA).

"French intelligence officers discovered this plan shortly after the current rebellion began, and this was one of the factors that influenced President Nicholas Sarkozy's decision to commit France to the attack on Libya."

Sarkozy sought to: "a. ...gain a greater share of Libyan oil production, b. Increase French influence in North Africa, c. Improve his internal situation in France, d. Provide the French military with an opportunity to assert its position in the world, e. Address concerns over Qaddafi's long term plans to supplant France as the dominant power in Francophone Africa."

What we witnessed in Libya was old-fashioned 19th-century imperialism: deliberate plundering of a sovereign nation-state's resources by more powerful states. (Source:FreePress.org, 31 March 2016, <http://tinyurl.com/gw6sdcz>.)

LEADING GERMAN JOURNALIST ADMITS CIA 'BRIBED' HIM TO WRITE PRO-NATO STORIES

Udo Ulfkotte, a former editor of Frankfurter Allgemeine Zeitung (one of Germany's largest daily newspapers), has gone public about his own corruption and that of the rest of the Western "news" media because he found that this corruption is bringing Europe too close to a nuclear war against Russia, which he concludes the US aristocracy that controls the CIA wants to bring about or else to bring closer to the brink.



Udo Ulfkotte at a PEGIDA demonstration in 2015. (Source: Wikipedia.org)

Ulfkotte spoke on Russian television on 6 October 2014:

"I've been a journalist for about 25 years, and I've been educated to lie, to betray, and not to tell the truth to the public. The German and American media [try] to bring war to the people in Europe, to bring war to Russia. This is a point of no return, and I am going to stand up and say...it is not right what I have done in the past, to manipulate people, to make propaganda against Russia, and it is not right what my colleagues do, and have done in the past, because they are bribed to betray the people not only in Germany [but] all over Europe. . .I am very fearful of a new war in Europe, and I don't like to have this situation again because war is never coming from itself; there [are] always people who push for war, and this is not only politicians, it is journalists too.

"Most of the journalists you see in foreign countries...European or American..., like me in the past, are so-called non-official cover...Nonofficial cover means...[y]ou do work for an intelligence agency. So, I have helped them in several situations, and I feel ashamed that...I was bribed by the Americans, not to report exactly the truth.

"Sometimes the intelligence agencies...come to your office, and want you to write an article. I just remember [for example] that the German foreign intelligence agency, the Bundesnachrichtendienst...a sister organisation of the CIA . . .came to my office, and they wanted me to write an article about Libya and about Colonel Muammar Qaddafi. They gave me all [this] secret [information], and they just wanted me to sign the article with my name. I

did that. It was published in the Frankfurter Allgemeine...it was about how he secretly tried to build a poison gas factory...it was a story that went worldwide days later." (Source: WashingtonsBlog.com, 7 October 2014, <http://tinyurl.com/n7b2prc>)

INDUSTRY WHISTLEBLOWER CLAIMS EMF POLLUTION IS WHAT'S KILLING THE BEES

by Makia Freeman

You may already be aware how humanity is killing bees through a variety of methods. In an earlier article "The Top 4 Reasons for the Bees Dying Off", I discussed how neonicotinoid pesticides, GMOs, EMF (electromagnetic fields) and geoengineering are all contributing to disrupting and killing bees through phenomena like CCD (colony collapse disorder).

Mankind is gravely endangering its own survival on the planet by injuring the bees like this, since we are all dependent on bees for pollination and our food supply. Einstein famously said that humanity would only survive for four years if the bees were wiped out. There may well be more than four ways in which humanity is killing bees, but a recent interview with Gabe Cruz, a former cellphone industry worker who has become a kind of whistleblower and interspecies communicator, reveals that one of these threats may be the greatest of all.

In an interview conducted by Miles Johnston, Gabe revealed that he used to work in the mobile phone, or cellphone, industry in Britain and was trained to understand frequencies and bandwidth. As part of his job, he used to carry around a backpack containing all sorts of devices of varying frequencies. Not surprisingly, being so close to so much artificial EMF and RF (radio frequency) affected his mood, health, behaviour and entire life. He later quit his job.

What makes this story so interesting is that Gabe was telepathically contacted by the bees, or the bee consciousness, with a crucial message. (Animal communicators such as Anna Breytenbach are able to contact the collective consciousness of other species, which speaks to them in one voice.)

The bees haven't merely communicated with Gabe; they have actively tried to make him understand, and make him experience, exactly what they are going through. This has led him to get headaches, feel disoriented, lose his train of thought and suffer a host of other unpleasant effects.

It appears as though the bees, through Gabe, are desperately shouting out to mankind: stop creating artificial EMF that interferes with and jam our frequencies— you're killing us! At least with pesticides and GMOs, the bees may be able to sense and detect their inherent toxicity and avoid them; but as long as they come into the proximity of humans with all our wireless technology, the bees find it hard to avoid artificial EMF.

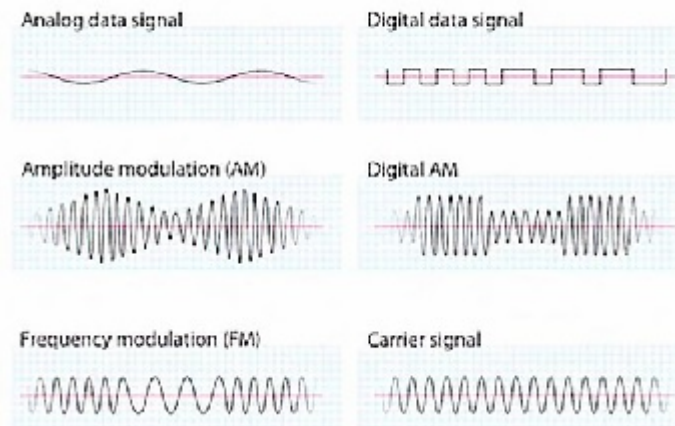
Harmful EMFs Severely Disrupt Bee Communication

Do you know that bees have an electrical sense? In relation to each other, bees are positively charged and flowers are negatively charged; so when bees pollinate, the electrical polarity helps the pollen stick to bees' hair.

Like many creatures in the animal kingdom such as birds, bats and whales, bees also rely heavily on sound and EMF for their very survival, including for orientation, navigation and communication. They transmit and receive on certain frequencies; and if there is too much interference or disruption occurring, it wreaks havoc on their lives.

Artificial EMF, especially Wi-Fi, high-frequency cellphone bands and the digital horizontal block frequencies, are jamming and disrupting the bees' communication channels to the point of threatening their survival. They have long been adapting and adjusting to the electromagnetic intrusion of mankind, but now the frequencies are becoming too much for them to bear.

WAVE SHAPES



The digital data signal (top right) is apparently the worst for the bees.

The message that Gabe is bringing through is borne out by scientific research. In *Bees, Birds and Mankind* (Kentum, 2009), German scientist Dr Ulrich Warnke wrote:

"Bees and other insects, just as birds, use the Earth's magnetic field and high-frequency electromagnetic energy such as light. They accomplish orientation and navigation by means of free radicals as well as a simultaneously reacting magnetite conglomerate. Technically produced electromagnetic oscillations in the MHz range and magnetic impulses in the low-frequency range persistently disturb the natural orientation and navigation mechanisms created by evolution."

The website Electronic Silent Spring notes:

"Warnke says that monocultures, pesticides, the Varroa mite, migratory beekeeping, dressed seed, severe winters, and genetically modified seeds could also explain the bee colonies' collapse. However, none of these convincingly explains the fairly sudden and country-spanning appearance two to three years ago of the dying bees phenomenon. Should the bees simply be too weak or ill, they should also die in or near the hive. But no ill bees were found in research into this phenomenon."

Famous whistleblower Dr George Carlo, a former insider in the mobile phone industry who went public to expose the dangers of wireless, wrote strongly about the issue in June 2007:

"Unfortunately, the situation with the bees is a page out of the playbook that we deal with all the time with the mobile-phone industry. When the bee story first broke, it was based on a German study that showed information-carrying radio waves disrupted the ability of bees to make it back to their hives. That work was made public about two months ago..."

"The news media ran with the story. The mobile-phone industry was caught off-guard by the widespread media attention the story garnered.

"After the first news cycle, the mobile-phone industry 'hit squad' went into action. First, they planted stories that cast doubt on the Einstein quote. Next, they conscripted scientists from a number of universities to begin going public with other explanations...viruses, bacteria, pesticides etc., etc., etc. These alternatives have been making the rounds over the past month. The mobile-phone industry is putting quite a bit of money into the pockets of these scientists by supporting their work regarding viruses and alternative explanations. The industry is dealing with it as a politics and public relations problem, thus manipulation of the public perception is the appropriate remedy for them.

"Most people in the public don't know the back-story, so they do not see the manipulation coming or have the necessary bases for skepticism to see through it. But here is the bottom line:

"The colony collapse disorder has occurred concurrently on four continents within a very short time frame. If the reason was biological or chemical, there would be a pattern of epidemic spread; we would be able to trace the spread of bee disappearance or Colony Collapse Disorder from a source similar to the spread of SARS a few years ago. That is not the case. The condition has hit each continent at roughly the same time. That would mean the cause has to have hit the continents at the same time as well. Mobile phones meet that criterion."

Based on the evidence above (both the message through Gabe and the scientific research), it appears that humanity is killing bees at an alarming rate. However, we are not just killing bees. We are killing ourselves. We are

electrical and electromagnetic beings. These artificial EMFs, although silent and invisible, are affecting us too, as those who are electrosensitive can attest. The bees may be warning us before it's too late, before we bathe our entire world in an artificial EM blanket from which it's impossible to escape.

Matter comes from energy or consciousness. The field creates the particle. We need to pay more attention to the energetic realm than the physical realm if we want to strike at the root of the problem.

As Dr Robert O. Becker, author of *The Body Electric*, said:

"I have no doubt in my mind that at the present time, the greatest polluting element in the Earth's environment is the proliferation of electromagnetic fields. I consider that to be far greater on a global scale than warming and the increase in chemical elements in the environment."

Watch the full interview with Gabe Cruz at <http://tinyurl.com/zqy5oa9>. (Source: WakingTimes.com, 15 April 2016, <http://tinyurl.com/zupuOak>)

MKUltra, Bioweapons and the Zombie Empire

Part 2 of 2

Biological and chemical weapon agents developed in university and military laboratories were tested on unwitting civilian populations and armed forces personnel in the USA, the UK and elsewhere with no concern for their toxic effects.

by Jack Heart and Orage

© 28 January 2016

Website: <http://www.veteranstoday.com>

Web page: <http://tinyurl.com/h64g28w>

Mad Scientists

Edgewood Arsenal, part of Aberdeen Proving Ground, is one of the most secret military bases in America and has been for a very long time. The high and foreboding fence stretching around its approximately 13,000 acres [5,260 hectares] attests to that, right from the first impression. Located in a secluded area on Chesapeake Bay, 20 miles [32 kilometres] out of Baltimore and about 70 miles [112 km] from Fort Detrick, it's the playground of the US Army Chemical Corps.

All through the late 1940s and into the 1950s, Edgewood through Operation Paperclip was the destination for an eclectic assortment of the Reich's most malevolent mad scientists. Much of the human experimentation for MKUltra was taking place there under the orchestration of Dr Ray Treichler, assistant to the director of Edgewood's Medical Research Laboratories and an employee of the CIA's Technical Services Staff (TSS). Harold Abramson, MD, the allergist who is on record as being Olson's "therapist" in New York City and, as it would turn out, flight instructor, was working out of Edgewood.¹⁶⁸



Edgewood Arsenal

The late Philip Coppens, renowned researcher of Ancient Aliens fame, claimed that Ira Einhorn—finally convicted and imprisoned for life in 2002 for Holly Maddux's murder—stated that Puharich, his one-time mentor and benefactor, was Gottlieb's go-to guy on hallucinogenics and involved up to his neck in Olson's terminal pre-dawn flying session.¹⁶⁹

Not even the Joint Intelligence Objectives Agency, charged during Paperclip and Project 63 with bringing National Socialist scientists to America at all costs, could get Dr Kurt Blome in. Hollywood could not have invented a better Nazi evil genius.

Blome actually bragged to Alsos agents about how he had intended to let the Soviets have it with the bubonic plague under a 1943 directive from Heinrich Himmler that planned to ignore Adolf Hitler's moratorium on biological and chemical weapons in the Third Reich. The Soviets' overrunning Blome's lab before he could get it going was the only thing that stopped him.



Dr Kurt Blome

It was a matter of public record and still is that Blome directed all manner of atrocities against the Poles while experimenting with biological warfare behind Hitler's back on the Eastern Front. Blome's method of treating Poles incapacitated by tuberculosis was to kill them.

At times, he had even used the plague to "euthanise" those who were too sick to work in the camps.

Yet Blome was acquitted of all charges at his 1947 Nuremberg trial, and two months later four representatives from Camp Detrick and the CIA's biological warfare program showed up in Germany to interview him. What he told them about biological warfare no doubt made them swoon, but because of the statements he'd made to Alsos he was judged as "inadmissible for immigration" to America. Instead, after all legal wrangling failed, Blome was put to work in 1951 for the US Army Chemical Corps as the lead doctor at Camp King near Frankfurt, Germany.¹⁷⁰

To this very day, the CIA routinely gives the "Glomar response" to FOIA requests for documentation about what Blome told the agents from Camp Detrick and exactly what he was overseeing for the Army Chemical Corps at Camp King.¹⁷¹

The term "Glomar response" was coined in 1976 when, after lengthy legal battles, the US District Court of Appeals upheld the CIA's right to answer journalist Harriet Phillippi's FOIA request for information about the research ship Glomar Explorer by simply saying that "it can neither confirm nor deny the existence of the requested documents".

The CIA now makes standard use of this sentence to legally brush off FOIA requests with which it doesn't want to comply, without invoking Exemption 3, Section 102(d)(3) of the National Security Act.

It's known from an 18 April 1944 entry in the diary of the executed Wolfram Sievers, Reichsgeschäftsführer or managing director of the Ahnenerbe, that Blome was carrying out experiments in neutron radiation. A 26 April 1944 entry shows that Blome was also contemplating human experimentation with bacterial pathogens, although it doesn't say which pathogens; nor does it give any details as to exactly what Blome was doing with the neutron radiation.¹⁷²

However, it is known that during his interview with the agents from Camp Detrick, Blome recommended the use of *Serratia marcescens*¹⁷³—an Enterobacteriaceae, as is *Yersinia pestis*, the bacterial pathogen that causes the bubonic plague, a perennial favourite in Blome's toy chest.

The Empire's Biological And Chemical Warfare

In September 1950, a US Navy minesweeper drifted silently a couple of miles off the coast of San Francisco for six days. It sprayed clouds of *Serratia marcescens* into the city's fabled fog; both mingled together and rolled inland to saturate its unsuspecting residents. Dubbed Operation Sea-Spray by the navy and labelled a "vulnerability test", this first recorded excursion into madness by America's armed forces is little known to this day.

A week later, 11 patients were being treated in the then Stanford University Hospital for severe urinary tract infections resistant to all known antibiotics. One would die when the *S. marcescens* colonised his heart.¹⁷⁴

The navy, quite pleased with itself, reckoned it had infected not only all of San Francisco but Albany, Berkeley, Daly City, Colma, Oakland, San Leandro and Sausalito too. It estimated that some 800,000 residents, many of them the most important people in the West's burgeoning defence industry, each inhaled millions of the insidious bacteria throughout the testing period.¹⁷⁵

A 1951 report reads: "It was noted that a successful BW [biological warfare] attack on this area can be launched from the sea, and that effective dosages can be produced over relatively large areas."¹⁷⁶

In a recently declassified 1952 training film, the US Navy is shown enthusiastically attacking the coast of San Francisco with what it laments to be "a rather crude spraying system".¹⁷⁷

Later in the same film, the navy uses "fluorescent tracer particles" to attack the southeast coast of the United States by sea, covering what it estimated to be some 20,000 square miles of inland Georgia, South Carolina and North Carolina by taking advantage of favourable wind conditions off the coast.¹⁷⁸

"Fluorescent tracer particles" was a euphemism, at the time used by America and Great Britain, for zinc cadmium sulphide. Cadmium had been classified by both the British and the Americans as a chemical weapon since World War II.

They were just getting started. In 1962 the Kennedy administration, acting on a directive issued in January 1961 by Secretary of Defense Robert McNamara, authorised America's Department of Defense (DoD) to launch Project 112, a comprehensive and highly classified "testing" program that over 50 years later Americans still know nothing about.

Project 112, along with its spin-off Project SHAD (Shipboard Hazard and Defense), officially authorised the ghouls at Fort Detrick and their Dragon Soldier counterparts to attack their own comrades-in-arms, and the very citizens they were supposed to be protecting, with chemical and bacteriological weapons, euphemistically called "simulants".

The project was run in conjunction with similar ones being carried out throughout the length and breadth of the Empire from Canada to Australia and from America to Great Britain.

Unbeknown to the enlisted sailors aboard, at least 13 American warships were exposed by simulated attack to both chemical and biological weapons under Project SHAD alone.

The DoD never publicly considered let alone acknowledged the long-term consequences to the health of the sailors on board those ships. In fact, the existence of Project 112 and Project SHAD was categorically denied by the military until May 2000 when a CBS Evening News investigative report exposed them.

The "tests" were global, with much of Project SHAD taking place in the South Pacific, but they were coordinated and orchestrated by the Army Chemical Corps operating out of the Desert Test Center at Fort Douglas, Utah. Administrative support came from the Dugway Proving Ground, about 80 miles [129 km] away.



Logo of the Desert Test Center featuring gaseous clouds encircling the globe. (Source: Wikipedia)

The command bypassed the usual DoD channels, reporting directly to the Joint Chiefs of Staff and the US Cabinet consisting of the Secretary of Defense, the Secretary of State and to a far lesser extent the Secretary of Agriculture. The Desert Test Center was in operation from 1962 to 1973.

"Simulation experiments" on American citizens would continue officially till 1966. In all likelihood, the carnage continued till 1969, when President Nixon theoretically put an end to it with a presidential order which "unequivocally" halted germ warfare research and the stockpiling of biological agents. 1950 to 1966, America's armed forces biologically and chemically attacked its own citizens at least 239 times in eight American cities, among them New York City, the world's financial centre.¹⁷⁹

Not to be outdone by the antics of the colonies, Great Britain's Ministry of Defence (MoD) unleashed the madmen of Porton Down right into their own living room. One 60-page report alone, issued at the turn of the 21st century, lists 100 such attacks—always euphemistically called "experiments"—by the MoD on British citizens.

In the Fluorescent Particle Trials from 1955 to 1963, residents of Cornwall were bombed by air and those of Somerset were sprayed by truck, like mosquitoes, with zinc cadmium sulphide, a known cause of lung cancer.¹⁸⁰

Seemingly in synchronisation with the British "Trials", from the end of 1957 into 1958, America carried out the Large Area Coverage "experiments" (Operation LAC). This time, the US Army Chemical Corps used a C-119 Flying Boxcar borrowed from the US Air Force to make repetitive runs over America's heartland, saturating most of the US and a good part of Canada with zinc cadmium sulphide.¹⁸¹

From 1961 to 1968 during Britain's Large Area Coverage Trials, more than a million people along the south coast of England, from Torquay to the New Forest, were attacked by sea with *Escherichia coli* and *Bacillus globigii*, said to be a mimic of anthrax.

From 1971 to 1975, in a joint effort with their American counterparts, British scientists sprayed the hapless residents of South Dorset with "massive quantities of *Serratia marcescens*".¹⁸²

There is every reason to believe that Blome's little pet was also the bacterium of choice in The Sabotage Trials, which took place from 1952 to 1964.

On the flimsiest of excuses, again to check target vulnerability, government buildings and the London Underground including the tunnel below Whitehall were targeted and attacked with bacterial "markers" by the lunatics from Porton Down.¹⁸³

Blome's Pet Bacterium

The few in the West who are aware of environmental modifications by America and Britain in the 30 years following World War II and are not clinically insane are being told that *Serratia marcescens* produces a bright reddish-orange tripyrrole pigment called prodigiosin, which makes it easy to track when used as a marker in bacteriological warfare tests.

Most of the literature available to the public tells them that prior to the 1950s, *S. marcescens* was considered a harmless, nonpathogenic saprophyte.¹⁸⁴ This is nonsense, as by 1896 it was already known in Germany that the "organism contributed to more deaths than many pathogenic bacteria".¹⁸⁵

Blome knew *S. marcescens* to be a dangerous pathogen. He may very well have been using it as a marker on enemy troop formations and experiments with captured Soviets and Poles, but he would never have recommended it to be used as such by his new benefactors within their own borders on their own citizens.

S. marcescens is a Gram-negative bacterium. This means simply that the mesh-like layer called "peptidoglycan", encasing the cell's plasma membrane, will not retain the crystal violet stain used in the Gram staining test after being washed with alcohol. A Gram-positive bacterium has a much thicker peptidoglycan layer which constitutes around 90 per cent of its dry weight, as opposed to a Gram-negative bacterium which consists of only about 10 per cent peptidoglycan.

Gram-positive bacteria are more sensitive to ionising radiation than are Gram-negative bacteria¹⁸⁶, making them far less likely to survive radiation mutagenesis—a process by which the genetic information of the bacteria is changed through exposure to ionising radiation.¹⁸⁷

Neutron radiation, a form of indirect ionising radiation which Blome was no doubt treating his pets with, causes radiation-enhanced diffusion. Over time in inorganic substances such as zirconia, urania, spinels, pyrochlores, and silicon carbide—ceramics used in the construction of particle accelerators and reactors—enhanced diffusion leads to what is called "microstructural evolution".¹⁸⁸

What is above board about microstructural evolution, which is really very little, is that the Office of Naval Research (ONR) is handing out the choicest of government grants to the most gifted of atomic scientists who choose to work in that field.

Called "3D printing" or "additive manufacturing" by the ONR, it is the technology depicted by Puharich disciple Gene Roddenberry in his landmark television series *Star Trek*. Instead of building, say, a propeller, as the ONR does in its explanation, by subtracting material as is done in machining, material is layered on by fusing it together at the atomic level.¹⁸⁹

In *Star Trek*, when Scotty needs a new part for his warp drive, he simply punches a barcode into the ship's computer and the part is waiting for him a few hours later, built from atoms by the computer. According to Roddenberry, this technology was at least 250 years in the future but the ONR is far more optimistic. Besides anticipating near-future "dividends both in the marketplace and as cultural modification", the ONR is predicting that "the next 30 years will see a dramatic increase in our ability to create parts on demand".¹⁹⁰

Roddenberry, aside from his relationship with the ever-dubious Puharich, was also taking advice on his scripts from the perhaps even more dubious, if that's possible, RAND Corporation...¹⁹¹

Mutating Bacteria

This did not begin in the bowels of the now forever-sealed underground citadels of National Socialism, although no doubt that is where its metathesis took place. It all began at the University of Wisconsin (UW) almost a decade before World War II, ostensibly before another world war was even a gleam in anyone's eyes.

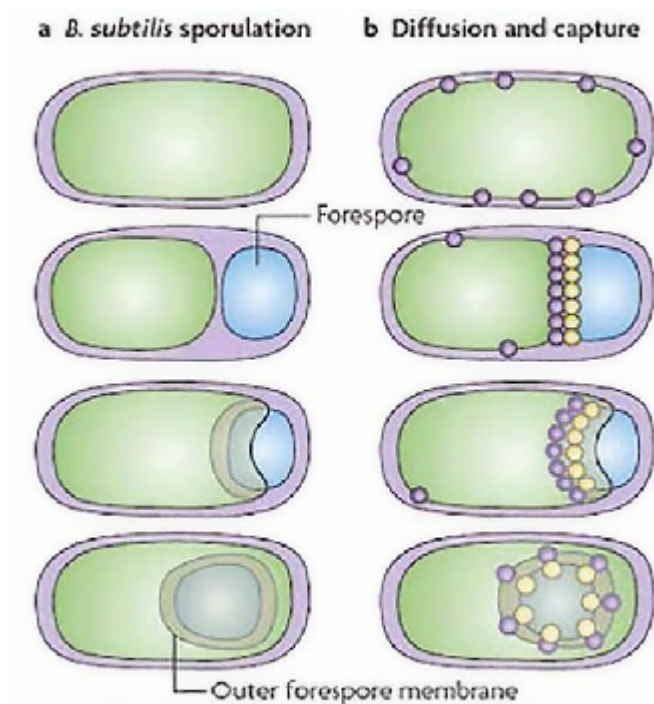
The original bacterial strains were brought from UW to Camp Detrick by Dr Ira Baldwin. In all likelihood, UW is also responsible for transporting its little prize across the ocean to Porton Down.¹⁹²

The US Army destroyed all records of what it was doing at Camp Detrick from 1942 to 1955, and anybody who could say is conveniently dead. But a note found in the archive of Baldwin's papers, dated 19 February 1943, contains an order from a Dr Fildes for a batch of *B. subtilis* spores. Sir Paul Fildes was the lead bacteriologist in the British biological weapons program.

The Empire's original bacterium of choice was apparently *Bacillus subtilis* var. *niger*, what they were calling "red strain".¹⁹³ This is just a misnomer in the taxonomic classification, perhaps deliberate. The name of the bacterium is most appropriately *Bacillus atrophaeus* var. *globigii*, the closest known relative of *Bacillus subtilis*.¹⁹⁴

B. subtilis is also called "grass bacillus" because it is commonly found in the gastrointestinal tract of ruminants like cattle—animals that for the last 50 years in America have been turning up with alarming frequency dead and surgically mutilated. Nobody has ever been caught doing it, and the animals usually have their blood, various internal organs and their rectums removed.

B. subtilis is referred to by Wikipedia as "one of the bacterial champions in secreted enzyme production". Outside a barrage of extremely complicated microbiology tests and the fact that it will not readily swap DNA with it, the "military strain" can only be distinguished from *B. subtilis* by its black colour, reminiscent of the "sentient oil" in The X Files.



During sporulation (a), *B. subtilis* undergoes an asymmetric cell division that generates two offspring of unequal size and developmental fate—a larger mother cell (green) and a smaller forespore (blue). The mother cell subsequently engulfs the forespore in a phagocytosis-like process, thereby surrounding it with a second membrane, the so-called outer forespore membrane. During this process, several proteins specifically localise to the interface between the two compartments (b). (Source: Nature Reviews Microbiology 2008 Jan; 6:28-40, <http://tinyurl.com/j6w3tph>)

In lieu of the facts, information available to the public would have them believe that the Empire was searching for a suitable bacterium to be used as a marker for *Bacillus anthracis* so it could run field experiments. Nothing could be more absurd.

B. anthracis is a pop gun. It was used by the Japanese against the Chinese in Manchuria during the 1930s and early 1940s with little to no effect. It is deadly to animals, not humans. Just like Blome, with whom they were exchanging information, the Japanese found the plague to be far more effective.¹⁹⁵ By 1944, anthrax could already be treated with penicillin.¹⁹⁶

Fildes did live testing with *B. anthracis* on the island of Gruinard, located off the northwest coast of Scotland, in 1942 and 1943. He also had five million cattle cakes laced with *B. anthracis* and ready to be dropped on Germany. It was estimated that the cakes would kill 30 per cent of Germany's cattle.¹⁹⁷

But Fildes never did get to drop his anthrax cattle cakes on the Germans. No doubt Allied High Command knew very well that Blome would have gleefully responded, this time with Hitler's blessing, by using the plague to kill more than 30 per cent of Great Britain's people.

The forensic evidence used by bacteriologists to pinpoint the taxonomy of the Camp Detrick strain indicates that the bacteria were mutated over and over again at Camp Detrick, Edgewood and Dugway Proving Ground¹⁹⁸ as well as at Porton Down. The best bacteriologists America and Britain had to offer were working night and day on this.

During the war, the Empire was in the middle of a life-and-death struggle with National Socialism. Its biological weapons program was just as important as the Manhattan Project, if not more so. It was looking for a weapon that would win. After the war, the CIA would end up tossing its own senior bacteriologist, Dr Frank Olson, out of a window right in front of Madison Square Garden to maintain secrecy.

It's a documented fact that the Empire's bacteriologists were cultivating strains that exhibited elevated rates of sporulation.¹⁹⁹ When certain types of bacteria, almost exclusively Gram positive, are unable to tolerate their

environment and have exhausted every option to adapt, they produce endospores.

The bacterium divides within its cell wall. One side then absorbs the other, what is left is an almost indestructible, multilayered vessel containing the genetic material, cytoplasm, necessary enzymes and whatever else it needs to sustain activity that is now 10 million times slower than the metabolic rate of a growing bacterium.

When the mother cell dies, the cell wall degrades and the endospore is freed. This is called "sporulation". When conditions become more hospitable, the endospore, not completely dormant, senses the change and reverses the process, transforming itself back into a vegetative cell.²⁰⁰

No one knows how long bacteria can survive as endospores. Claims have been made for the revival of endospores that are 40 million years old.²⁰¹

Bacillus subtilis is the undisputed world champion of sporulation.

A Gene-swapping Pathogen

Bacteriologists have always considered Gram-negative bacteria to be incapable of sporulation because they lack the hard outer shell necessary to produce endospores.

But according to a 2003 paper, wastewater from a sewage treatment tank in Saku, Japan, was analysed and found to contain an endospore-forming bacterium that produced the *Serratia marcescens* signature red pigment, prodigiosin.²⁰² The bacterium was also able to hydrolyse cooked meat; in other words, decompose it and split it into other compounds by reacting with water.

These are telltale indications that it is *S. marcescens*, but endospores have never been found before in any *Serratia*. They are characteristic of *Bacillus*, which is always present in abundance in sewage treatment tanks²⁰³, particularly *B. subtilis* which is used to normalise the pH of wastewater.

Using *S. marcescens* and *B. subtilis* as controls, the researchers ran comparison tests and found the mysterious bacterium to be a new subspecies of *S. marcescens*, dubbed KRED[†].

This is the first recorded instance of an Enterobacteriaceae, the large family of extremely dangerous pathogens to which both *S. marcescens* and *Y. pestis* belong, ever producing endospores. It is believed that due to the presence of high concentrations of magnesium and silicate in the treatment water, the *S. marcescens* was able to swap genes with the *Bacillus*.²⁰⁴

B. subtilis may well be one of the bacterial champions in secreted enzyme production, but, as Blome well knew, it's not even playing in the same league as *S. marcescens*.

S. marcescens is the pinkish oily film that appears in bathrooms that aren't disinfected regularly. Wherever there is moisture, suitable temperatures and a lack of fresh air, no matter how extreme other environmental conditions, *S. marcescens* will not only survive, it will grow.

It has been found flourishing in disinfectant, antiseptics, double-distilled water and human blood.²⁰⁵

When growing in temperatures above 98 °F [~ 36.7 °C], *S. marcescens* is pale white. When its nutrient requirements are met, the intensity of the red-pigmented prodigiosin in individual cells is regulated by population density, making the prodigiosin itself what microbiologists call an "autoinducer".

In bacteria, autoinducers regulate the way genes are expressed. It is believed that bacteria use autoinducers the same way as insects use pheromones. Both constitute a language expressed through chemical manipulation at a molecular level by which the communal intelligence of a hive or colony is coordinated. Science refers to this as "quorum sensing".

Dozens of scholarly papers have been written on *S. marcescens*' use of prodigiosin as a means of quorum sensing. Dozens more have been written about the uses of quorum sensing in robotics. Back in 2006, a 104-page presentation titled "Swarm intelligence for cooperation of bio-nano robots using quorum sensing" was delivered at the Bio Micro and Nanosystems Conference in San Francisco.²⁰⁶

Chemical Manipulation in Nature

Pathogens have been known to hijack their host's body through the molecular manipulation of chemicals. In a most extreme case, the fungus *Ophiocordyceps unilateralis*, sometimes referred to as the "zombie fungus", turns its host, an ant, into a zombie that lives only to serve the life cycle of its parasite. The ant leaves its life with its colony in the tree to live in the dank, dark places of the rainforest floor as if it were a fungus. Finally it crawls up and out onto a branch, clasps its mandibles to a leaf and dies as the fungus bursts through its head and releases its spores.

The parasitic worms *Spiniochordodes tellinii* and *Paragordius tricuspidatus* force their cricket or grasshopper host to

leap into a body of water and drown. The worm then emerges from the insect's floating corpse to swim away and find a mate. Studies of *P. tricuspidatus* have shown that it produces "effector molecules" that manipulate the cricket's central nervous system. *S. tellinii* reproduces proteins used in the insect's signalling pathways. These chemical signals by which the parasite hijacks the body of its host are called "mimetic molecules".²⁰⁷

Scientific studies have shown that mosquitoes carrying *Plasmodium falciparum*, the parasitic protozoan that causes malaria, not only exhibit heightened predatory senses but are three times as likely to be attracted to human odours.
208

Toxoplasma gondii is the parasitic protozoan that causes toxoplasmosis, a disease found all over the world. Estimates suggest that over 30 per cent of the world's human population is infected.

T. gondii has been shown to alter behaviour in an infected rodent, its intermediate host which it uses as a vector, in order to increase the rodent's chances of being eaten by a cat, its target host and the only animal in which it can sexually reproduce.

Infected rodents lose all fear of cats, their greatest natural predator. In humans, infection by *T. gondii* is held in check by the immune system and toxoplasmosis is usually asymptomatic.

However, studies have shown a strong correlation between schizophrenia and the disease. Some studies have shown that women with toxoplasmosis are more likely to cheat on their husbands, men are more likely to be aggressive, and both sexes have slower reaction times.²⁰⁹

Bacteria may be even more subtle in the manipulation of their hosts. *Subtilis* in Latin means "to be finely spun, to be exact; to be minutely thorough, strict and precise". Bacteriologists now suspect that the microbiota in people's stomachs may actually dictate behaviour patterns in their human hosts that will more likely result in the bacteria getting their required nutrients...²¹⁰

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Editor's Note:

This article is edited from Jack Heart and Orage's article "MKUltra -Cybernetic Mutation, Remote Controlled Slaves, Dragon Soldiers and a Zombie Empire; Paint it Blue...". The endnotes are available at the web page:
<http://tinyurl.com/h64g28w>

The article's endnote numbering follows on from "Shadow of Nemesis 5" at:
<http://tinyurl.com/gp2a46m>

The authors' two-part article "Shadow of Nemesis" was published in NEXUS 22/06 and 23/01.

This series continues with "The Blood of Christ - Hemorrhagic Fever, Expendable Humans and Bacteria Gone BeZerk, Paint It Blue.", dated 13 March 2016; available at the web page:
<http://tinyurl.com/hkxefxr>

Ancient Knowledge of Leukocytes

Physicians in antiquity and prior to the mid-17th century knew the importance of the blood humour for health and immunity. While using different terminologies, they were aware of leukocytes or white blood cells and even prescribed foods that enhanced the production of these cells.

by Paul Lloyd, PhD

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A Lost Humour Found

Leukocytes, or leucocytes, are the millions of colourless blood cells— known colloquially as white blood cells—that form in bone marrow and circulate around the veins in our bodies. These amoeboid or “crawling” cells, which unlike red blood cells contain nuclei, are today considered vital to maintaining good health.

There are at least five different types of them, and each sort performs a separate function that results in our being protected from infections. If the body has a deficiency of these cells, immunity against disease is lowered; but, as we will see, there are several things that we can do to increase our leukocyte counts.

Although it is generally thought that the nature and function of white blood cells is a relatively recent discovery in the grand scheme of medical history, I provide evidence here that links these cells to one of the four elements of humourism. This is the ancient, time-tested medical theory/practice that was erroneously discredited by some doctors, but certainly not by everyone, in the 19th century.

Two-and-a-half-thousand years ago, the father of Western medicine, Hippocrates, explained to his readers that the preservation of good health and the curing of physical and mental diseases revolve around achieving a fine balance between the four bodily humours.¹

These are yellow bile and black bile, and two others believed these days to be phlegm and blood. This balance is achieved when people recognise their unique humoral complexion and then apply six golden rules (known as “non-naturals” in days of old) to their daily lives.

he rules involve: taking the right amount and right sort of exercise, depending on one’s individual characteristics; breathing high-quality, non-polluted air; evacuating faeces, urine, semen, menstrual fluid and perspiration in a regular and timely manner; sleeping soundly at the right time, as opposed to just sleeping; avoiding anxiety, confusion and disorder of the mind brought about by not controlling stressful thoughts and bad dreams; and last, but by no means least, following an individually tailored diet based on one’s personal make-up—as opposed to following modern off-the-shelf dietary advice which incorrectly assumes that the same foods are either good or bad for most of the human race.²

These humours have proved to be somewhat elusive to modern medicine because the names given to them in former times have been taken literally— as adjectives as well as nouns. This elusiveness is perhaps unsurprising given that our knowledge of humoral healthcare comes from 16th- and 17th-century scholars who themselves had adopted this ancient system, and all other things Greek and Roman, during the Renaissance period.

But Hippocrates himself did not actually invent the system. As he pointed out that humourism was ancient even in his time, a good place to start looking for the meaning of the humours is in the texts of highly advanced ancient civilisations. It is almost axiomatic to say that those who bequeathed to us accurate astronomy and an understanding of the outer planets of our solar system, massive precision-built structures aligned with heavenly bodies, timekeeping, calendars, trigonometry, recordkeeping and accountancy would undoubtedly have had advanced medical knowledge as well.

So, what are the natures of the humours understood to be? I discuss this in a two-part article in NEXUS (vol. 22, nos 3 and 4) and in my latest book, *Become Your Own Doctor*. As such, this information doesn’t need to be repeated here. Suffice it to say that having too much or too little of any one humour in relation to the others can be damaging to physical and mental health; and by failing to apply the six golden rules correctly, the humours can mix one with the other, which also compromises health in various ways.

There is a wealth of medical books from the 1500s and 1600s that have survived the ravages of time. These health manuals speak of the qualities of the “blood humour”, and they describe in detail what can go wrong with the mind and body when there is too much of it, or not enough of it, or when the substance is compromised.

They also explain how to rectify these problems.³

Because our ancestors could not possibly have had access to sophisticated medical knowledge—as current mainstream thinking goes—it is assumed that their “blood humour” must mean the blood itself. After all, as time and knowledge are supposed to walk hand in hand unidirectionally, complex in-depth expertise dating back millennia is an alien concept to many people today. However, I now provide evidence that strongly suggests, insofar as at least the blood humour is concerned, that medical experts in ancient times knew far more than modern science is prepared to give them credit for.

A few physicians who lived in the Renaissance and early modern Europe have acknowledged that “blood” is made up of finer “particles”, as indeed are the humours in general.⁴

Although they are less than specific about the exact nature of the particles, it is clear from my research that when sages who lived in time immemorial were talking about the blood humour they were actually referring to neutrophils, lymphocytes and the other types of leukocytes that make up one per cent of the body’s blood. This is the warm, moist humour that ancient medical experts insisted is the most important of the four: it must be present in the right amount to protect the body from bad health, and it must not be corrupted by the other three.

Today: White Blood Cells and Health

The various constituent parts of leukocytes, when they are working correctly, between them signal to the body any invasion of infectious agents. They attack and destroy cancer cells and fend off allergies; they kill and break down unwelcome bacteria and fungi; they defend the body against viruses; and they manufacture antibodies that are circulated around the bloodstream to all areas. It is possible to have too many white blood cells, perhaps indicating an infection of some sort— although a high count does not necessarily indicate a specific or ongoing infection.⁵

Alternatively, one can have a deficiency of leukocytes; but according to Med-Health.net, this deficiency can be rectified in a number of ways. Adjusting one’s lifestyle, as medical experts on this website tell us, is key to achieving the correct level of leukocytes that helps in ensuring good health. Basically, these are: evacuating the bladder; taking the right amount of exercise; relaxing in a purposeful way; avoiding stress; and eating foods and drinking beverages that increase their production. Sound familiar? Add to this list breathing in high-quality air and we have Hippocrates’ “six non-naturals”.

To put some meat on these bones, so to speak, Med-Health.net advises to drink plenty of water. This results in flushing out, via the urinary tract, “toxins that may affect white [blood] cell consumption in the body”. We are also advised to exercise regularly because physical activity is “an excellent booster of [the] immune system”; but, critically, “[i]t is better to exercise moderately as too much exercise can affect the health and wellness negatively”.⁶

Next we are informed that relaxation is beneficial not only for the immune system but also for maintaining good general health. What could be better in this respect than sleeping soundly—for the right number of hours at the right time of day?

Avoiding stress, which negatively affects the immune system, is next on the list of things to do to regulate the quantity of white blood cells. Stressful situations and perturbations of the mind should be circumvented wherever and whenever possible. The other thing we need to do to increase the leukocyte count is to consume the right foods. According to the latest medical/dietary advice, these are the foods along with their leukocyte-promoting constituents:

Asparagus: vitamins C, B, A, folic acid, selenium, zinc
Broccoli (and other brassicas): vitamins E, A, B1, selenium, zinc, omega-3

Carrots: zinc, copper, vitamins A, C, B, especially E

Garlic: zinc, selenium, allicin, vitamin C

Milk: vitamins E, C, immunity-building protein, folic acid

Nuts (almonds): vitamin E, zinc, omega-3

Oranges (and other citrus fruits): vitamins C, B1, folic acid

Oysters: zinc, selenium

Salmon: omega-3, which strengthens and increases leukocytes

Turkey: zinc.

Collectively, these foods are thought to enhance the production of white blood cells and protect the immune system that helps to fight off infections.

By doing all of these things, and possibly by adopting a Mediterranean-style diet according to one health study⁷, we can best look after our leukocytes. Achieving the right balance of these cells in the body helps to maintain good health and at once helps to prevent contracting colds, influenza, pulmonary conditions, fevers and a host of other infections.

Ancient Days: Blood Humour and Health

To take the last point first, the salubrity of embracing a Mediterranean-style diet has been well known for at least four centuries. Indeed, this was a concern of a British navy admiral who complained that he could not wean his common sailors off their preferred scurvy-inducing diet of salted meat and onto a more healthful Mediterranean-style one.⁸

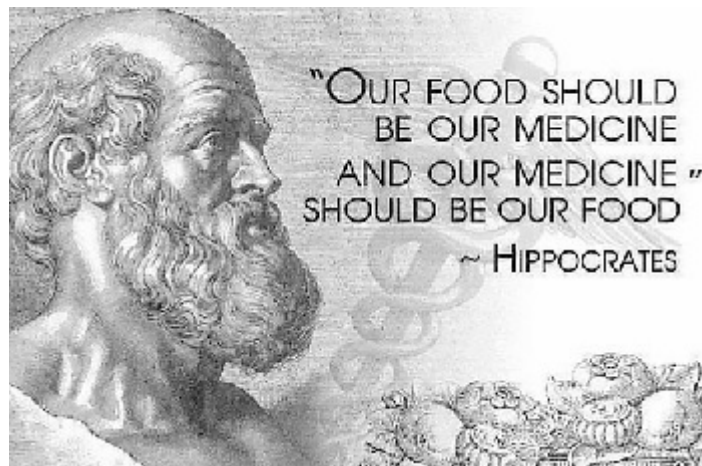
But regarding the four bodily humours, the most beneficial one, as ancient medical wisdom insists, is the blood humour—or “particles” in blood. It ensures good health by keeping the whole system free-flowing and by fighting off infection and preventing illness from occurring in the first place (think immunity).

Having too much cholera in relation to the blood humour leaves us susceptible to contracting fevers; it can attract internal and external infections; it can leave us somewhat costive; and although it sharpens the mind, it can negatively interfere with reasoning. The patient can become aggressive. This is especially the case for young or physically active people and others with a naturally choleric complexion.

Having a deficiency of the blood humour relative to the (so far unidentified) one that the ancients insisted is in phlegm can bring about: cold-related illnesses; pulmonary diseases; poor digestion of food, even if the patient has a hearty appetite; a weaker pulse than one would expect; looseness of the bowels; tiredness; and an impaired mental faculty with adverse effects on both memory and reasoning. This is particularly problematic for naturally phlegmatic people, especially those exposed to cold, damp conditions.

When the balance of the humours swings away from the blood humour to black bile— itself a product of blood—the body is physically slower than usual, digestion is slow, and the person takes on a melancholic character. This is manifested in a somewhat gloomy or pessimistic disposition, perhaps even leading to depression.

Having too much of the blood humour relative to the others leaves one with a sanguine temperament, which includes having a ruddy complexion and sometimes an occasional tendency to haemorrhage at the nose and eyes. So how does having a high white blood cell count bring about this condition? Erythrocytes (red blood cells) are increased by eating foods, especially those containing folic acid, similar to the above-listed ones that increase the leukocyte count.



Apart from dietary change, how, in the eyes of Hippocrates, Galen and other venerable medical experts of bygone ages, is one supposed to increase the blood humour relative to the others? The answer is, demonstratively, in the same ways that present-day scientists inform us that leukocyte counts are increased.

One should take physical exercise, particularly in the morning, but this must be both gentle and moderate in duration. We are told by Renaissance physicians that an activity such as a steady jog or horse-riding is more beneficial than running fast.⁹

There are other things that Hippocrates said that we can and should do: on a regular basis we should clear the bladder and bowels of waste material that is full of excess humours such as yellow bile, black bile and “phlegm” and also contains toxic, corrupted humours. Drinking water facilitates this. This evacuation is done in order to promote the production of the blood humour that prevents the body and mind from becoming ill.¹⁰

Furthermore, we ought to relax by getting a good night's sleep. It's advisable to retire after digestion is complete in order to sleep soundly for a few hours. Also, as maintaining rhythm is important, it's best to go to bed and rise at the same time each day. Millennia ago, regularity was seen as key as much as it is today, with health experts warning about the consequences of working rotational shift patterns.¹¹

As is the case for the adverse effect of stress on immunity, so is the case for the avoidance of perturbations of the mind in order to achieve humoral balance and optimal health. Physicians practising humoral medicine, along with other knowledgeable authors, have explained why feelings of admiration, contempt, pride, humility, dejection, veneration, disdain, hatred, fear, jealousy, despair, remorse, sorrow, joy, grief, sadness, envy, pity, indignation, wrath and shame, to name but a few, can cause health issues.¹²

Regarding diet, present-day nutritionists tell us that eating the right foods is essential to promoting the generation of white blood cells that protect the body from disease—and according to ancient medical wisdom, it is essential to the production of the “blood humour” that fulfils exactly the same role. So what are the foods that will help in this respect, and what are their humoral properties?

The blood humour is warm and moist, and any food that has these characteristics will transfer its properties to its consumer. It is important to realise that humoral heat and moisture are not necessarily the same as physical heat and moisture; this can be seen in the examples of lemon juice and vinegar, which are dry, and hops and sage, which are hot.

To be beneficial to the blood humour, foods need to range from temperate (neutral) to warm and moist. The humoral properties of the foods recommended for promoting reproduction of “the blood humour” (or leukocytes) by medical experts in the dim, distant past and repeated by mediaeval doctors are both amazing and revealing, as this list shows:

Asparagus: Slightly warm in the first degree and temperately moist.¹³

Broccoli (and other brassicas): Cold and moist in the first degree. When cooked, slightly warm in the first.

Carrots: Moderately warm in the second degree; moist in the first degree.

Garlic: Very hot in the fourth degree; dry in the third.

Milk: Temperate in heat; moderately moist in the second degree.

Nuts (almonds, walnuts): Slightly warm in the first degree; slightly moist in the first degree.

Oranges: Sweet varieties are temperate in heat and moisture; sour ones are cooler.

Oysters: Slightly warm in the first degree; moderately moist in the second degree.

Salmon: Temperate to slightly cool in the first degree; moist in the first or second.

Turkey (dark meat): Moderately warm in the second degree; moderately moist in the second degree.

With the exception of garlic, all of these foods generate the blood humour and white blood cells, and they all protect the body by bolstering immunity.¹⁴ But how might we explain the apparent contradiction that garlic is a producer of cholera rather than of blood? Medical writers in ancient times were talking about raw cloves of this allium bulb, and they were perfectly aware that processing it—especially by roasting or baking it—lessens the heat and at once moistens it.

But as this moderation may not be severe enough, how else can we account for the supposed discrepancy? It has been noted by Professor Joan Thirsk, who was an eminent agriculture and food historian at Oxford, that garlic these days is by no means as strong as it was a few years ago—let alone a few centuries ago.¹⁵ Thus, the discrepancy might be more apparent than real.

The Lesson to be Learned

The existence of white blood cells, their very nature and the way in which they are produced, then, were known in antiquity. Their collective name was “the blood humour”. Knowing this has profound implications for the medical profession today. This is because the extant wealth of medical guidebooks that convey sound advice for lifestyle choices, cures for a whole range of diseases and explanations for why and how we all have unique dietary needs—as opposed to all of us being the same and needing a “one-size-fits-all” approach—can now, again, be taken seriously. These books, ancient and mediaeval, can teach us far more than we had imagined up until today.

It is my hope and belief that further research will not only verify my findings, but will also locate and identify the other three “particles” that were well known in antiquity and were called “black bile”, “yellow bile” and “phlegm” by physicians in mediaeval and early modern times.

About the Author:

Paul Lloyd, PhD, is an historian based in Leicester, UK. He specialises in diet, nutrition and food practices during the period 1500-1700.

Dr Lloyd is the author of *Food and Identity in England, 1540-1640: Eating to Impress* (Bloomsbury Academic, 2015; reviewed in NEXUS 22/04). He has written numerous papers including "Making Waterfowl Safe to Eat" (*Food and History* 2013; 11[1]:35-55), "Dietary Advice and Fruit Eating in Late Tudor and Early Stuart England" (*Journal of the History of Medicine and Allied Sciences* 2012; 67:4) and "Nutritious Foods and Consumption Choices in the Early Modern Period" (*Social History of Medicine* 2011; 24[1]:161-5).

His two-part article "When 'Alternative' Medicine Was Mainstream" was published in NEXUS 22/03-04. His book *Become Your Own Doctor* is to be published by Ayni Books in October 2016.

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HIV Positive without Treatment...and Healthy!

Many people with HIV and no symptoms have studied the flaws in the HIV=AIDS theory and stopped taking their medications— without any harmful effects. Health authorities recommend drug therapy from the first sign of HIV diagnosis, despite the unreliability of testing methods.

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Why must people submit themselves to triple, highly active antiretroviral therapy (HAART) as soon as they are diagnosed HIV positive?

This question goes against official recommendations but is at the core of the life experiences of many HIV positives who, after having enquired on the web and carefully considered the information they found, decided to abandon the “medicalisation of fear” and stop their treatment. And, surprisingly, their health has not deteriorated!

This little-studied phenomenon is qualified as extraordinarily rare by “HIV specialists”. Could those experts have got it wrong, pushing patients into unjustified and expensive medical care? This is what this investigation, dedicated to the diagnosis and medical follow-up of HIV positivity, reveals.

Facts and Figures

According to a 2014 UNAIDS report, 35 million people worldwide are estimated to be infected with HIV (human immunodeficiency virus). These figures are comparable to cancer prevalence. Every year, nearly US\$20 billion is spent on research. The report also noted that in 2013 there were 1.5 million deaths related to AIDS (acquired immune deficiency syndrome).¹

Apparently, as the media remind us every year, it is a global disaster. However, such figures should be strongly questioned—and have been ever since epidemiologist James Chin, MD, former director of the World Health Organization (WHO) AIDS program and author of *The AIDS Pandemic: The Collision of Epidemiology with Political Correctness*², set the cat among the pigeons. In his book, Dr Chin demonstrates that the statistics concerning the prevalence of HIV infection have been exaggerated in order to maintain the fear of an explosion of the epidemic into the general population—an explosion which has been predicted often but never observed.

However, Chin, who is by no means a dissident who would question the HIV=AIDS theory, wrote (p. vi): “HIV prevalence is low in most populations throughout the world³ and can be expected to remain low, not because of effective HIV prevention programs but simply because HIV infection rates can rise only to the level(s) permitted by the prevailing patterns and prevalence of HIV risk behaviors and the prevalence of facilitating and protective factors. The vast majority of the world’s populations do not have sufficient HIV risk behaviors to sustain significant epidemic HIV transmission.”

The HIV Testing Hoax

Officially, the USA now has around 1.2 million people living with HIV, with one in seven of these unaware that they have HIV.⁴ In Australia, an estimated 27,150 people live with HIV. In 2014, 1,081 people were diagnosed with HIV.⁵ In France each year, more than 6,000 people discover their HIV positivity by means of the ELISA and western blot tests, which is confirmed by their count of CD4 cells (T-cells) or viral load (the amount of virus in the blood).⁶

With regard to the arguments brought by a large number of scientists (see Afterword, “What if everything you’ve learned about AIDS is wrong?”), the published counts of HIV-positive people should be taken with a grain of salt because screening tests are not reliable. Furthermore, many publications exist showing 70 conditions that can generate a false positive.⁷

“This HIV test story is a huge hoax!” rages William⁸, a 53-year-old HIV-positive Frenchman who was diagnosed in August 2014. After 11 months of triple therapy, this father finally stopped his treatment. He took this decision in November 2015 after having reviewed the medical literature.

Within William, the announcement of HIV positivity started a chain reaction which led him to discover “the incredible truth”. After the “enormous shock” of the diagnosis, he experienced sheer incomprehension:

"I've always had a healthy sexual life. I am not on drugs. I do not smoke. I do sports; I have an athlete's body. I was married for 20 years. I lived with a girlfriend for seven years. So when I did the test at the time of becoming involved in a new relationship, my first reaction was, No, this can't be possible!"

After the incomprehension came the acceptance: "I underwent a lot of pressure as it is not possible to resist these doctors who kept telling me, If you do not take the therapy for yourself, take it for your children'. Announcing my HIV status to my children was in itself a traumatising experience, and it took me a good month before resigning myself to taking the medicines."

Not long after, William would follow his initial intuition: "Taking advantage of a professional break, I consumed considerable amounts of information until I realised that, finally, I was facing the biggest scam of the century. Then I passed the stage of questioning. The 'viral load' is nothing but absolute bullshit! And I am certainly not going to be a guinea pig for the AIDS industry. Rather than engage in arm-wrestling with the doctors, I am going to let them keep believing in their theory. What really matters to me is how I feel. And I feel great!"

The official line is that without triple-therapy "AIDS cocktails"—consisting of three drugs from at least two different classes—one cannot survive HIV infection. But in reality, William said that he is absolutely sure he will remain healthy, especially because of his very healthy lifestyle. He denounces a dehumanised medicine which defines the health status of so-called HIV-positive people solely on the basis of two controversial laboratory test results without any clinical observations.

The Viral Load: An Unsuitable Marker

Officially, the viral load describes the number of virus particles in the blood and is a marker of disease progression. "False!", argue the dissident scientists. The technique of PCR (polymerase chain reaction), used to identify and quantify HIV, the so-called "AIDS virus", is not only denounced by its very inventor, Dr Kary Mullis, who shared the 1993 Nobel Prize in Chemistry for this discovery, but also by a large number of specialists such as Professor Etienne de Harven, a pioneer of electron microscopy. Nevertheless, this test continues to be used with absolute confidence.

As Matt Irwin, MD, explains: "When [the viral load tests] are done on the serum of people considered HIV-negative, 3% to 10% of them commonly have positive viral loads, and the highest reported rate of false positive results is a remarkable 60% (HIV surrogate marker coll. group 2000).

"Although most cases reported have false viral loads of 10,000 or less, there have been reports of false positive viral loads as high as 100,000 copies per milliliter. In the United States, where the prevalence of HIV is about 1 in 250 people (0.4%), a false positive rate of only 2% would still mean that random screening of the population would result in 5 false positives for every true positive, and a false positive rate of 10% would result in 25 false positives for every true positive.

"The most likely explanation for this high false positive rate is that HIV-RNA assays commonly react with non-HIV RNA, such as that produced by normal human cells and other microbes."⁹

According to Roberto Giraldo, MD, an infectious diseases specialist as well as a board member of The Group for the Scientific Reappraisal of the HIV/AIDS Hypothesis (Rethinking AIDS¹⁰):

"...Since the viral load results are given in copies per ml of plasma...AIDS researchers, health care professionals, and lay people may think that they represent copies or counts of the virus itself. However, the viral load test only makes copies of fragments of nucleic acids. It does not count HIV itself. A positive viral load test cannot be regarded as signifying the presence of the whole HIV genome, and therefore the test cannot be used to measure virus."¹¹

Bertrand, a 34-year-old HIV-positive Frenchman who was diagnosed seven years ago, said: "When the doctor tells you that your viral load is measured in hundreds of thousands of copies, even in millions for some, that really freaks you out!" Although he already had a viral load of around 250,000 copies (against a maximum of 2,000 to avoid the combination therapy), he never wanted to take any treatment. Surprisingly, in spite of the unfavourable forecasts of the doctors, his viral load spontaneously fell to 11,500; in fact, it has never stabilised, oscillating randomly around 40,000 copies.

William, mentioned earlier, added to his testimony: "In a general way, I avoid following carefully the quarterly measurements as it remains a source of chronic stress that could undermine my immunity."

Doctors and researchers indeed underestimate the deleterious impact or "nocebo" effect of the announcement of poor results, which is capable of eliciting an immune drop (depression, stress) in some HIV-positive persons who are anxious or emotionally vulnerable to HIV medical discourse. William noted:

"We have to be mentally very strong to resist the brainwashing and remain anchored in our convictions!"

The CD4/T-Cell Count Marker

The HIV=AIDS theory says that having a CD4 or T-cell count below 350 is also a sign of viral activity because this is the type of immune cell that HIV attacks and destroys. A count of 350 would then justify the initiation of treatment.

A CD4 rate of less than 200 is considered to indicate an advanced stage of infection, and in the United States it is enough for a diagnosis of full-blown AIDS despite the absence of opportunistic infections. But here again, for HIV=AIDS dissidents, there is no scientific evidence proving that HIV preferentially destroys T-cells or has any toxic effect on these immune cells.

The counting method itself poses numerous reliability problems. Flow cytometry techniques (to determine the counts of every type of immune cell) require a sophisticated level of technical skill which is difficult to reproduce from one laboratory to another. Official notifications on Aidsmap.com concede that it's best to monitor the trends in T-cell count over time.

If possible, it's also advisable for the T-cell count to be measured in the same clinic and at approximately the same time of day on each visit. It's suggested that people suffering from an infection, such as flu or herpes, should delay the testing until they feel better.¹²

Bertrand, mentioned above, who has been without treatment for seven years, noted: "Over the tests, I was able to notice significant variation in my count, without an apparent link to my health. It had already gone down to 220 CD4, and then it rose up naturally. On average, it would yo-yo around 350, without ever exceeding 500.' This example undermines the insidious argument of the health authorities which ensure that only treatment can bring CD4 counts back up or prevent a runaway viral load.

Pressure on Parents

Speaking of her experience, Sabine said: "When in 2004 I was informed of my HIV positivity during a routine exam, I saw myself dying. At that time, I knew nothing about the HIV=AIDS controversy. By educating myself on the Internet, I have gradually become convinced of the nonexistence of the virus. I have never taken any ARV [antiretroviral] treatment and my health has always remained good."

Sabine's story might have ended there, especially in Switzerland, a country of complementary medicines, except that a few years later Sabine gave birth at home to her second child, in agreement with her new companion who is aware of her HIV positivity. As happens to many children, her baby, then three months old, had to be admitted to hospital because of worrying symptoms.

On this occasion, the doctors found Sabine's medical record and discovered her HIV positivity. The child was immediately placed under triple therapy solely on the basis of the CD4 cell count and the viral load (without ELISA or western blot tests, which have been found to be unreliable in infants). This was the beginning of a two-month stay in intensive care at the hospital, where the child underwent a battery of tests resulting in all kinds of interventions:

"Following a scan, a small lump appeared on a lung," said Sabine. "My baby underwent a bronchial lavage under general anaesthesia, following which they put a central line in his breast in order to administer all the medication. After a second general anaesthesia, some water was found on the lungs, which required intubation.

"After two months, they let us take him home with the obligation to give him the triple therapy. Quickly we decreased, then stopped the treatment. Our son got better and his CD4 and viral load tests were pretty good for the medical profession—until the day when they measured the dose of medication in the blood and found no trace of the treatment!

"Finally, I was reported by the hospital to the Child Protection Court. A few months later, I was sentenced by the court and my parental rights were restricted. From then on, we were controlled by a doctor."

In the denunciation letter to the judge, the hospital wrote:

"The child has been without any effective treatment for several months already. Right now, he is clinically healthy. Unfortunately, his blood tests are very disturbing, showing that the virus is very active and that the child has a very real risk of complications (progression to AIDS, or even death) that could occur soon."

For six months, nurses came morning and evening to check that Sabine's son was receiving treatment. Since the middle of 2014, the child has thus been under triple therapy. Meanwhile, Sabine was working on letting go. She turned to quantum medicine to mitigate the trauma:

"I am hopeful because his treatment will be augmented by alternative practitioners. But his chemical treatment will last until my son reaches the age of majority, as long as his T-cell counts and viral load are not in the desirable range. The irony is that I am now waiting for results of an analysis that I don't even believe in."

In the boy's medical record, which we were able to consult, the smugness of the doctors oozes from between the

lines: "Parents whose interaction with their baby is extremely well adjusted and empathic, while expressing no sense of responsibility, or feelings of sadness, anxiety or anger with regard to the situation.

"The mother rationalises using a very solid and well-built model of thought. A very paradoxical situation, in connection with the parental functioning (denial of the consequences of the disease and risks of transmission)."

Yet the parents' attitude is as rational as the scientific literature which questions these treatments. Sabine's situation reveals the omnipotence of the current dogma which can quickly dish out punishment when its prescriptions are not respected.

But it is not just AIDS treatment which can deprive parents of their freedom of choice regarding health: this can also apply to vaccinations and cancer treatment, and maybe soon to autism and hyperactivity. Families had better watch out!

Escape from Abusive Treatments

The pressure is not less on adults. Here is the story of Etienne, who endured a heavy medical protocol continuously from 1993 (AZT, or azidothymidine, at first, then double therapy and then triple therapy) until 2013—in total, 20 years of antiretroviral therapy from which he only escaped thanks to the Internet!

"During all these years, I behaved like a good little soldier," Etienne said. "I still do not know how I could bear all this medicine, especially since my fear of death encouraged me to use drugs. With my face of a zombie, I could not hide that I was HIV positive—until the day I came across a Facebook post.

"I went to the Rethinking AIDS association website. I read many books, in particular Peter Duesberg's. There was nothing more wonderful to read! The hoax appeared to me so obvious that I did not doubt after five minutes. When I saw my doctor again and told him that I had stopped the treatment, he was speechless. Now that I don't want him to measure my CD4 counts and viral load any more, I tell him, I would rather you have a look at my level of vitamin D!"

Another Look at HIV Controllers

Etienne is a survivor of both HIV and triple therapy—"proof" of the efficacy of triple therapy, his doctor will probably argue. But is it really proof, since triple therapy has never been tested against placebos (see below)? Is Etienne not an "HIV controller"¹³, that is to say a patient who naturally controls the progress of HIV? Officially, the answer is no! This is because Etienne does not fit the very narrow definition of this population, estimated at only 0.5% to 1.0% of all HIV-positive persons.

Indeed, to be considered an HIV controller, it is necessary to: (1) never have received any treatment (which is unusual in the Western world); and (2) have a viral load at baseline below 2,000 copies and eventually reduced to below 400 copies. These are very selective criteria. This is also why Bertrand cannot be considered an HIV controller in spite of a total absence of treatment for seven years: his laboratory results (profits) are not normal! And we cannot speak of Sabine as an HIV controller, despite her 10 years without treatment, because she never wanted her measurements to be taken. As for William, it has been only one year since he stopped taking medicine and his initial measurements disqualified him.

In reality, there are no reliable statistics on the number of healthy HIV-positive persons not taking triple therapy. We are therefore entitled to wonder if the "natural control of HIV" is not within the reach of the majority of HIV-positive people. On our part, it took only a day of research on social networks to find and interview four asymptomatic HIV-positive persons not taking treatment.

But the medical profession simply cannot believe that this phenomenon exists on a large scale. As one of the specialists, Professor Olivier Lambotte, studying HIV controllers at ANRS (the French AIDS research agency) pointed out: "Those who have not progressed to AIDS, after stopping the treatment, are fewer than twenty."¹⁴ (Emphasis added.)

This specialist is referring to the ANRS VISCONTI (viro-immunological sustained control after treatment interruption) study which identified 14 patients in France who had a remission that, in certain cases, lasted 13 years after interruption of the antiretroviral treatments. But this study was only interested in patients who had started treatment within three months after the primary infection, which led his coordinator, Prof. Christine Rouzioux, to claim:

"Early treatment has probably limited the expansion of the viral reservoirs, and has protected their immune responses. This...allowed control of the infection after stopping treatment."¹⁵

Translation: it is necessary, as soon as possible, to put all HIV-positive people under treatment! Not doing so would therefore be an infringement of medical ethics.

In fact, there are strong indications that the majority of patients, especially in populations that are not at risk, are improperly started on treatment.

This hypothesis is supported by David Crowe, President of Rethinking AIDS:

"This is completely circular logic. Because they assumed that everyone was at risk, when they found out that this wasn't true, and that everyone was on toxic drugs, they then said, 'Well, maybe not everyone, but almost everyone'. Nobody knows how many HIV+ people would remain symptom free without drugs. In addition, it is estimated that there are millions of people worldwide who are HIV+ and don't know it.

"Presumably many of these people have not sought medical assistance because they are symptom free. Furthermore, the average time from infection to AIDS' is estimated to be 10 years. It is unlikely that many HIV+ people who trust their doctors will be allowed to go medication free for 10 years, therefore there is no way of telling whether they are normal progressors or long-term non-progressors."¹⁶

No Double-Blind Trials for Triple Therapy

Contrary to the requirements of good science, AIDS therapies enjoy the same exemption as vaccines.¹⁷ Everyone is so sure of their benefits that antiretrovirals no longer have to comply with the basic rules of clinical trials for placing new drugs on the market.

As David Crowe said: "Only the early studies of AZT even claimed to use a placebo. Not only did those find very little benefit after any reasonable length of time, but it was seen that those taking AZT were much more likely to need blood transfusions. And the trials were corrupted, as evidenced by several articles by John Lauritsen, collected in his free online book *Poison by Prescription*."¹⁸

"The trials of cART, combination therapy, have two fundamental flaws. First, they can only show that cART is less toxic than the highly toxic AZT. Although many combinations used to include AZT, it was at a much lower dose (200 or 300 mg/day versus up to 1500 mg in the early trials of AZT). Secondly, they do not monitor for improved health, but just for improved CD4 counts and so-called viral load."¹⁹

Thus, nothing is really proved!

Worse, triple therapy only changes the type of illnesses. We shall simply quote a 2005 study concerning patients under triple therapy arriving at hospital:

"As the HAART era progressed, the holes in the HAART armor became more apparent. Although patients were not having as many opportunistic infections, there was still a relatively high incidence of certain HIV associated malignancies...deaths related to end stage liver disease [almost certainly caused by the drugs] were more common than deaths from opportunistic infections. Hospitalizations for lactic acidosis, reconstitution syndromes [which are opportunistic infections occurring shortly after starting AIDS drugs] and late stage complications related to HAART were becoming more apparent. Some authors also noted an increase in mortality and hospital admission rate as the HAART era progressed."²⁰

Ignored Alternative Treatments

All around the world, there are alternative doctors who specialise in the field of AIDS and are especially active within organisations such as *Alive and Well*²¹ and *Heal*²² or are on a list published online on the Rethinking AIDS website. This is proof that all options for possible treatments are not given to patients. On the contrary, patients are intentionally diverted from them by coercion or, if necessary, by judicial power.

"These [alternative] treatments should be covered by health insurance or supported by national systems of health" is a statement written into the Declaration of Pont-du-Gard at a conference of dissidents in France in June 2012.²³ This is a great idea, but dreaming is useless in the current context where the financial stakes are so huge, especially as this is about treatments for life.

Changing approaches to immune deficiency treatment would dramatically reduce income for the industry. There would be indirect and difficult-to-estimate financial losses resulting from lower sales of drugs for opportunistic infections associated with either the disease or the side effects of triple therapy.

Treatment Costs to Make a Person Go Pale!

Triple therapy costs between 1,000 and 1,500 euros per month, the equivalent of a minimum income!²⁴ With this sum, every patient could instead consult with world specialists in complementary medicine.

But, "the global market for anti-AIDS treatments reached approximately [US]\$13 billion in 2009. It increases by 13% per year, and should exceed \$17 billion by 2018, just in Europe and the United States", the French newspaper *Le Figaro* reminds us.²⁵

In 2015, globally, nearly 16 million HIV-positive people were under treatment²⁶, compared to 9.7 million in late 2012!²⁷ This huge increase is due to the efforts of global health authorities which now recommend treatment from the time of first awareness of HIV status, even without any clinical signs of diseases and independently of the results of laboratory analysis.²⁸

The WHO recommendations of June 2013 “include providing antiretroviral therapy—irrespective of their CD4 count—to all children with HIV under 5 years of age, all pregnant and breastfeeding women with HIV, and to all HIV-positive partners where one partner in the relationship is uninfected”. The stated objective is “ensuring that all 26 million people eligible for treatment have access—not one person less”.²⁹

This medicalisation of fear continues to widen the indications for treatment—a common sales technique for laboratories, but not necessarily for the benefit of patients’ health.

Conflicts of Interest

David Crowe noted: “Government agencies should be independent, but there is a revolving door’ at the top. This closely aligns the government agencies with the needs of the pharmaceutical companies. In addition, in the time of Ronald Reagan, the FDA [Food and Drug Administration] started to take fees from drug companies for drug approvals. This encourages swift approval of new drug applications which helps fund the FDA.

“Instead of being an independent agency, the FDA has become a rubber stamp for new drugs. The fact that quite a few drugs are pulled off the market after approval is an indication that the approval process has major problems. This rarely happens with AIDS drugs simply because people diagnosed with AIDS are believed to have a fatal condition so most drug side effects will be blamed on HIV, not the drugs.”³⁰ Circular logic.

The French AIDS agency, ANRS, is a good illustration of the problem of conflicts of interest:

“All members of its committees are under multiple contracts with the firms that produce the drugs they have to evaluate,” says Professor Philippe Even in his latest book *Corruptions and Credulity in Medicine*.³¹ For example, for this article we looked for statements of conflicts of interest among the scientists who drafted the September 2015 report on the ANRS Pre-exposure Prophylaxis (PrEP).³²

“This report recommended more extensive use of Gilead’s Truvada®³³, which was indeed announced by France’s Minister of Health in November 2015. But all the 23 experts except one have links, sometimes very close, with the antiretroviral industry, among which several ties are with Gilead laboratories. However, these links are minimised because they were only declared for “work on PrEP in the period since the referral by ANRS and CNS (April-July 2015)”.³⁴

It would take a whole article to explain the extreme flaws in the ANRS recommendations. In any case, ANRS cannot be considered an independent agency since its experts flirt with industry!

Besides, this recent ANRS report, favourable to the prescription of antiretrovirals for HIV-negative people considered to be at risk, is based on the Ipergay study, led by ANRS itself, which concludes that Gilead’s Truvada is effective—but the trial has created debate about ethical questions and conflicts of interest. This study cost the French public more than one million euros, all this being a saving for the lab!³⁵

“It is often said that ANRS is a unique institution in the world of research, due to both its mode of organisation and how it is financed,” boasts the agency’s director in the 2013-14 activity report.³⁶ This is actually the French health agency to which the most blank cheques are signed for its trials and where vigilance on conflict of interest is the least.

Afterword:

What if Everything You’ve Learned about AIDS is Wrong?

The following statement was made in 1994 by Dr Kary Mullis, co-winner of the 1993 Nobel Prize in Chemistry, and two colleagues who are among 2,600 scientists and researchers from the “dissident” group Rethinking AIDS:

“Although more than 75,000 scientific papers have been published on AIDS, no paper has seriously considered all relevant evidence and attempted to prove that HIV causes AIDS.

“Some papers respond to specific objections but begin by assuming that HIV causes AIDS, which is the very question at issue. If such a paper were possible to write, it would have been written, and been the most widely cited scientific publication of this century. Since such papers do not exist, it is impossible to refute or substantiate the arguments they might contain.”³⁷

The Rethinking AIDS group was founded in 1991, inspired by Dr Peter Duesberg, Professor of Molecular Biology at the University of California at Berkeley, who in 1987 was the first to express doubt publicly about the HIV=AIDS hypothesis.³⁸ Among the prominent scientists who share the analysis of the Rethinking AIDS founding letter³⁹ are

Etienne de Harven, MD, a pathologist who pioneered research on retroviruses, and Gordon Stewart, MD, Emeritus Professor of Public Health at the University of Glasgow and a former WHO adviser on AIDS. These are internationally renowned experts who know what they're talking about...

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Rosicrucianism, Freemasonry and Esoteric Science

Retired US military scientist and engineer Richard Schowengerdt, who was awarded a patent for an electro-optical camouflage system, shares his thoughts on the link between science and mysticism as well as on the cloaking abilities of UFOs.

Interview by Robert Guffey

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I first met Richard Schowengerdt, professional scientist and 33rd Degree Freemason, in the early morning hours of 11 March 2006 during a performance of the 32nd Degree ritual at the Scottish Rite Temple in Long Beach, California.

The full transcript of that encounter can be found in the pages of my recent book Chameleo (OR Books, 2015), which draws its title from Schowengerdt's Project Chameleo, a revolutionary attempt to develop fully operational electro-optical camouflage to be used by United States soldiers in the battlefield.

Schowengerdt's career as a scientist spans over six decades. Since the early 1960s Schowengerdt has been quietly responsible for a number of innovations in the field of electromagnetics while working under the auspices of the US military at installations such as the US Navy Metrology Engineering Center (MEC), the Naval Sea Systems Command Technical Representative Office (NAVSEA TECHREP), the Naval Reserve at the Naval Air Station Miramar and the Naval Air Station Point Mugu, California, among several other installations.

At MEC he was instrumental in developing the first digital voltmeters as well as directing nuclear magnetic resonance and Josephson effect research with the National Bureau of Standards, now designated as the National Institute of Standards and Technology. When he worked for the NAVSEA TECHREP, he pioneered a concept for closed-loop testing of guided missiles that reduced the need for excessive missile firings on a test range.

Beginning in 1988 he was responsible for engineering surveillance of the Northrop Grumman work shares on the F/A-18 E & F, EA-18G, B-2 bomber and various unmanned aircraft at both El Segundo and Palmdale, California. Prior to his retirement in 2014, he was a key member of the Defense Contract Management Agency Palmdale, El Segundo Operations, where he was assigned to the Advanced Extremely High Frequency (AEHF) Program Support Team in the Redondo Beach Space Park and responsible for engineering surveillance of the AEHF satellite program.

Schowengerdt's private experiments with electro-optical camouflage began in 1987, but it wasn't until 1993 that he launched the aforementioned Project Chameleo. Schowengerdt finally secured US Patent No. 5,307,162 entitled "Cloaking System Using Optoelectronically Controlled Camouflage" on 26 April 1994. Later he teamed up with an associate, Dr Lev Berger, in Hemet, California, to perform tests and simulations involving Project Chameleo technology, culminating in the presentation of a paper, "Physical Aspects of Electro-Optical Camouflage", at the American Physical Society Centennial in Atlanta, Georgia, on 23 March 1999.

In February 2005 he presented a paper, "Innovations in Electro-Optical Camouflage: PROJECT CHAMELEO", at a Military Sensing Symposium at SPAWAR [Space and Naval Warfare Systems Command] in Charleston, South Carolina. The ripple effects of his pioneering experiments with optical camouflage continue to influence various aspects of the American defence industry to this day, a little known fact documented extensively in the pages of Chameleo.

According to Richard Schowengerdt, his active participation and unflagging interest in Rosicrucianism and Freemasonry have been entwined with his scientific curiosity for over 60 years. He became a Rosicrucian and a Freemason while serving in the US Navy on the island of Guam in 1951-53, a Scottish Rite Freemason in 1969 and a York Rite Mason in 2009.

In this April 2015 interview, conducted beside his swimming pool in the backyard of his charming home in Costa Mesa, California, Schowengerdt and I discuss the profound impact that Freemasonry, Rosicrucianism and other metaphysical strains of thought have had on his many scientific endeavours for the past six decades.

Rosicrucians, Freemasons and the Island of Guam

Robert Guffey (RG): I'd like to focus on how your life as a scientist and an engineer intersects with your life as a Freemason and a Rosicrucian.

In Western civilisation these are considered to be polar opposite fields of endeavour. Science is considered to be something that you can grasp with your hands and understand with your rational brain, while metaphysics is considered to be ephemeral and wholly a part of the spiritual world. Apparently, however, you see a connection between these two worlds. Is it correct to assume that your interest in science came before your interest in metaphysics?

Richard Schowengerdt (RS): From a very early age I was curious about scientific things such as the radio, the little magic man on the radio. I wondered where that voice was coming from. At age sixteen I became an amateur radio operator, and that's how I got my start in electronics. Later on I went into engineering.

RG: When did you first become interested in metaphysics?

RS: That was when I was in San Francisco at the Navy School Electronics. I went into the navy in 1950 when the Korean War broke out. I had spare time on my hands while I was attending school, so I'd go to the library. I got very interested in philosophical, religious and metaphysical things, so I read a lot of books in that line.

RG: What was the thing that sparked that interest? Was it just something you can't really put your finger on?

RS: I think it was a yearning in my soul for answers as to why we're here, what our mission on Earth is, that led me onto the path. My first assignment, after electronics school, was with the Naval Communications Station on Guam, and being on Guam at that time...it was a very isolated area, there weren't too many people there...there were military people and the Guamanians, but there weren't very many outside visitors because at that time it was just recovering from World War II.

There were still some Japanese on the island hiding out in caves. They didn't know the war was over. So I read a lot of books; I went to the local libraries there. That's when I joined the Rosicrucians. My buddy and I had read about them in magazines. They had these little ads and we were both in the same frame of mind, doing all this searching and reading, so we joined the Order together, We studied the monographs together.

RG: They sent the monographs to you in the mail?

RS: It was all done by mail in those days. You'd get one a week. You had to read it, write a little report on it and send it to San Jose. It was all snail-mail then.

RG: So it was sort of a mail-order Masonry. You went through the degrees by doing these packets. What did those consist of? Did you have to do exercises or...?

RS: Yes, there were exercises. A lot of these involved deep breathing and visualisation, and concentration on various things. You started out with focusing on your body...throughout your body...all of your body...and then went into other areas, concentrating on trying to project yourself to some location, this type of thing.

RG: And you and your buddy...what was his name?

RS: Robert Long.

RG: So you and he were doing these together. Did either of you ever...this is the early 1950s, right?

RS: 1951 to 1953.

RG: I think of that time period as...you think of McCarthy and the Communist witch hunts and things like that when there was a great deal of scepticism about anything that wasn't mainstream, particularly in regard to religion, when a lot of people might have immediately decided that the Rosicrucians were a scam, you know? Was there any sort of scepticism on your part? Did you ever think, "Perhaps I shouldn't be doing this?"

RS: Hardly anyone knew anything about it, so we didn't encounter any sort of negative criticism. We told a few people about it, and they just thought we were sort of strange. [Both laugh] But aside from that, there was no adverse criticism about it.

RG: So you joined the Rosicrucians first before you joined the Masons?

RS: Right. It was only a few months beforehand, though, because a minister friend of mine wrote me a letter, and I never knew he was a Mason but he said, "While you're there on Guam, it might be a good time for you to consider the Masons." It was his subtle hint.

RG: This was a minister from back home?

RS: Yes. He gave me the name of a guy working as a civilian contractor, so I contacted him and they got me initiated into the lodge, putting me through very quickly,

RG: What was the lodge like on Guam? Was it small?

RS: It was a fair-sized lodge. It was, I guess, the size of most of our lodges here, but it was mostly military people and some contractors who were working over there. But aside from that, it was very similar.

RG: Was it a new lodge that had recently been established or had it been there for some time?

RS: It had been there quite a while. It had been established by the Philippine jurisdiction, and General Douglas MacArthur had a lot to do with promoting military lodges in that Western Pacific area. He might have had something to do with establishing that lodge, or some military people helped get it started.

RG: When you joined the Masons, did you see a connection between that and Rosicrucianism?

RS: Well, quite a bit in the symbolism. Not so much the teaching, but in the symbolism in the lodge. When I went into the lodge the first time, I could see and understand a lot of things, like the twin pillars of Jachin and Boaz [symbols that feature prominently in the first three degrees of Masonic ritual]. I could understand the metaphysical meaning of all that and a lot of the other symbols. I knew what the inner meaning was: not the meaning that the Masons taught, but the esoteric meaning.

RG: So, because of your background in Rosicrucianism maybe you had more of an inkling as to the symbolism underneath the symbolism, more so than your fellow lodge mates?

RS: Oh, yes.

RG: Were your fellow lodge mates seekers as well, or were they mainly joining because other military people were joining?

RS: Well, in the military lodge I think that was one motivation. If there were Masons in the military unit they were in, it gave them some incentive to look into it and become a Mason.

RG: Perhaps as a social club?

RS: Right. I think it starts out that way.

RG: And maybe they were not really thinking of the symbolism as they were going through the degrees?

RS: Exactly. I was thinking a lot more about the inner meanings of the ritual, rather than just a story.

RG: I remember your telling me about an exercise you had to do with a candle when you started out in the Rosicrucians. You had to be in the middle of nowhere...

RS: Yeah, we had no privacy in our barracks for setting up a sanctum with a candle and all that. So the only way I could do it...I was part-owner of a car with Bob Long. We would drive this car out into the jungle where there was nobody around. I lit up my candle and started performing the ritual. Pretty soon there was a knock on my window. It was a guard saying, "What're you doing out here?" I said, "Well, I have to do this ritual. I don't have any privacy in my barracks." He said, "Well, okay, but be careful that that candle doesn't start any fires." So he left me alone.

RG: He didn't think it was weird that you were doing a ritual or ask you what this was for?

RS: He thought it was a little weird, but he didn't pry into it. [Laughs] We kept checking around for a place where we could have some privacy, so we talked to the chaplain and he told us we were welcome to use the chapel on certain evenings for a study group or whatever, so we found another person who was a Rosicrucian—I think there were three of us then—so we met there pretty regularly.

RG: So the chaplain was very broadminded, then. He certainly didn't have any negative associations with Rosicrucianism. And he was familiar with what it was?

RS: I think he was, probably. We told him briefly what it was about. He said, "Okay, that's fine." [Laughs]

RG: Do you remember anything about the esoteric books you read while stationed on Guam—something you learned from them, or why they were important to you?

RS: Well, Bob Long and I talked extensively about these books, especially P. D. Ouspensky's books and several of Eliphas Levi's books including The History of Magic. Yes, we talked a lot about the books and what we thought of them.

Resonant Frequencies and Clandestine Groups

RG: Did you immediately draw any connection between your interest in science and the books on magic that you were reading?

RS: Yes. I always felt that, even though subjects of a mystical and metaphysical nature seem to be quite different from science, there are basic principles that are the same. There are the laws of polarity—positive, negative, neutral—and the notion of equilibrium is extremely important. In science, the concepts of equilibrium and resonance are very important.

RG: Could you briefly describe resonance?

RS: Resonance is where any object, if you vibrate it at a certain frequency, will reach its critical frequency where it will shatter—like a glass will shatter at its resonant frequency. Everything in nature has a resonant frequency, and this all has to do with polarity and vibrations. So there's really a close connection between science, metaphysics and mysticism if you dig into the details. It's on a different level. The laws operate on a higher level than here on the physical plane.

RG: Well, how does resonance manifest in magic?

RS: It manifests in a similar way in that if you concentrate very hard on something that you want to activate, you can actually agitate the electrons and molecules in that substance until it will recognise that there's an influence coming from the outside—or, it's really not from the outside. It's more from the inside than the outside. So there are very definite connections.

RG: Is that what you were doing with the candle meditation?

RS: Yes, yes.

RG: How does equilibrium manifest in magic?

RS: It would manifest by activating a person or a substance or something to cause it to vibrate at a certain frequency.

RG: I've heard various people who practise magic say that if you practise black magic...you know, negative magic...if you cast a curse on someone, it will come back to you tenfold.

RS: Yeah, if you try to do harm to someone.

RG: Does that tie in with polarity in the sense of there being a reaction—you cause one thing to happen and it causes something else to happen?

RS: Yes. There's a mystical law that when you use these methods, you must use them for good and not for a negative purpose. If you use them for a negative purpose, you're getting into dangerous territory where it can reflect back on you adversely. So they highly discourage any negative use of magic.

RG: If you do something in a positive manner, though, it comes back to you positively.

RS: Right.

RG: So, for example, in the Rosicrucians, the Council of Solace...the whole point of that is basically you're doing a mass meditation, a mass prayer I guess you could say, to send out positive energy to specific people, right? If I know someone who's sick, I could submit their name to the Council of Solace, and the Council of Solace will send out white light energy to that specific person.

RS: Right. The more people you have concentrating, the more powerful it becomes.

RG: When I was visiting the Rosicrucian Lodge I started thinking about: what if there is a negative side to this? What if there is an evil Council of Solace and you submit a name, and the group sends out black, negative energy to someone who's healthy? I assume that would be possible as well, if a group of people wanted to do that and were aware of the techniques.

RS: Unfortunately, it could cause harm to someone.

RG: The Rosicrucians aren't doing that, but members of a black lodge might do that?

RS: I understand there are some groups who do this, but we're always told to stay away from them, not get involved with them.

RG: Can you tell me anything about the people who do that sort of thing?

RS: Specific names? There's one that even the Grand Lodge has heard about: the Order of the Creeping Serpent. We've been prohibited from having anything to do with that group.

RG: Oh, really? I don't know that I've heard of that. Is it a clandestine body connected to Freemasonry?

RS: No, no. It's not connected to Masonry, but I think there have been some Masons who have drifted into that group. That's the only one I can think of by name. There are some other groups that are borderline—fringe groups, occult groups—but as far as I know they don't practise any black magic. They do things of a questionable nature, as far as we're concerned, like the Order of the Golden Dawn and a few others that involve some sexual practices.

RG: Oh, right, the Golden Dawn.

RS: There are some variations on the Golden Dawn, but there was one that was meeting in Garden Grove [California] for a while until the landlords found out they were involved in sexual rituals and kicked 'em out.

Rosicrucian Physics

RG: So what do you feel you get from the Rosicrucians that you don't get from Freemasonry?

RS: The Rosicrucians have a definite study program. They have a plan for you to study and a methodology to go through to achieve certain objectives. The difference is that Rosicrucianism is oriented towards development of your faculties, your spiritual and psychic faculties, as well as developing your health, maintaining your health, and this is not something that's a part of Masonry.

RG: So you think they complement each other well. The holes in one are filled by the strengths in the other.

RS: Sort of. Maybe. Yeah. The Masonic Order is very strong on ritual. The Rosicrucians have rituals but I don't think they put importance on them as much as Masonry does. They focus more upon the teachings and the program. Masonry does not have a curriculum of learning, and it has a totally different objective. The objective of Rosicrucianism is to develop yourself internally—your internal faculties, all of your faculties— and to develop your body to keep you in health. Exercises are oriented to maintaining your health.

RG: Physical health.

RS: Physical and mental health. All of the aspects of health are covered by Rosicrucianism. It's a very broad philosophical and metaphysical study. It also has its own interpretation of physics: Rosicrucian physics.

RG: Oh, really?

RS: Yeah. The basis for it is that everything is based on vibrations, as opposed to things just being material objects. Conventional science looks at material things, delves into them and analyses them, their structure and all that, whereas Rosicrucianism starts from a different level. It looks at an object and determines its polarity and vibrational level— and, as I mentioned, everything has a resonant frequency. So Rosicrucian physics rests on a spiritual foundation rather than a material foundation, and that foundation consists of a world of extreme complexity of vibrations. Everything is vibrating at different rates. If you knew what frequency every object was vibrating at, it would be mind-boggling; you can't really perceive it directly. Rosicrucian physics teaches that you can activate these vibrational levels by vowel sounds, and they teach you a whole range of vowel sounds where you hum or sing these vibrations. They will regenerate things within your body, or they will harmonise relationships between people. There's a whole system of how to do this. We have some books that people can read, so the public can learn about it.

RG: Off the top of your head, can you think of a title?

RS: I have one in the house right now. [He shows me the 12th edition of Rosicrucian Manual, published in 1952 by AMORC and prepared by H. Spencer Lewis.]

RG: As a scientist, do you see anything in there that contradicts the mainstream view of science, or do you think it complements the mainstream view of science?

RS: I think it complements it. It looks at it from a different perspective. I don't think it clashes with it. It's just a different way of looking at the world.

RG: I assume that a lot of mainstream scientists would look askance at it, though, and think it was.

RS: Unscientific?

RG: Unscientific, right.

RS: There are. They look upon such things as being unproven and difficult to demonstrate.

RG: Is it because it's more subjective?

RS: Yes. It's more subjective and involves interaction with other people, which is very difficult to measure.

RG: Do you think that's a weak spot, a blind spot, in mainstream science—thinking that everything needs to be measured or that everything can be measured? Not in science necessarily, but in certain scientists and the mainstream view of science.

RS: Yes. Well, Einstein would supposedly sit and meditate until an idea would come into his mind. The way this intuition came to him is not "scientific". There's no way you can prove it, but if you can develop an equation that works in the physical world then it lends more credence to it.

RG: Right, right. And a lot of scientists were also very mystical, Tesla being one of them.

RS: Exactly, yeah.

RG: So if I know a young person in their teens or early twenties who's a seeker, would you say Rosicrucianism and Freemasonry would be a good place to start?

RS: If you really want to get into the esoteric part of it, I would say Rosicrucianism would be better to start out with. That way you could understand Masonry when you go into it. You'll understand a lot more about the symbols than the average Mason would. For example, the twin pillars of Jachin and Boaz are the twin pillars of equilibrium, and there's a third pillar which is not mentioned in Masonry much, but it's alluded to when they talk about the three lights of Masonry: the Master, Senior Warden and Junior Warden. So the central pillar is the Master who harmonises these two streams of the two pillars. Wisdom, Strength and Beauty. I think the Master is considered to be Beauty, in the centre, with Wisdom and Strength the other two poles.

RG: So in Rosicrucianism you learn that this is symbolic of polarity, but you're not taught that in Masonry. It's symbolic of a major principle in both magic and science, then.

RS: Yeah, right, exactly.

Electro-Optical Camouflage and UFOs

RG: In Chameleo, we discussed your electro-optical camouflage technology. Is it possible that your interest in invisibility technology arose from your interest in Rosicrucianism and Freemasonry, Hermeticism and the occult? The word "occult" simply means "hidden", so it's appropriate that your main scientific pursuit involved making the visible opaque. It's the ultimate melding of your two interests, science and the occult. Did you ever think of it that way?

RS: I have thought that maybe that's an influence I had, but I think it's more the idea that a person could be hidden. In fact, in the Rosicrucian Order we have some exercises that are intended to teach you how to become invisible. Frankly, I've never achieved it...yet. But there are some people who claim to be able to do this.

RG: It's something you're doing with your mind and your body? You're influencing others not to see you?

RS: Right.

RG: An attitude you have that makes you blend in, or is it something hypnotic? You're hypnotically preventing people from seeing you?

RS: A little of both.

RG: Like The Shadow, the pulp hero from the 1930s.

RS: Yeah. The Shadow. Yeah. [Laughs] You blend into the background.

RG: Eastern mystics claimed they could do the same thing. Is it derived from that?

RS: Right.

RG: That's interesting. You've met Rosicrucians who claim they can do that?

RS: I've never actually met one, but I've been told there are Masters who can do it.

RG: Maybe that idea planted the seed is what you're saying?

RS: I think so, yeah. And then I thought, well, why not do this scientifically with instruments and electronic

components and so forth. [Both laugh]

RG: How do UFOs tie in with your interest in both science and metaphysics? When did you first become interested in ufology, and do you have any particular theories about the origins of UFOs? After all, the UFO field melds mysticism and science. It is a strange bridge between those two things, isn't it?

RS: Well, I've been interested in ufology, I guess, ever since I heard about Roswell. I didn't hear about Roswell when it happened in 1947. We didn't have the kinds of communication we have now. I was in a little hick town in Missouri. When I found out about it later in life, I got very interested and read books about it, and I thought it could be that these are very advanced people or entities that have visited Earth, and why not? So I thought it fitted in with the Rosicrucian way of thinking that were spiritual entities and we resided somewhere else in a previous life—maybe on Earth or some other planet.

RG: Do Rosicrucians have in their literature anything specifically about extraterrestrials or supernal beings?

RS: They don't really teach much about them, though they mention there are other beings on other planets.

RG: The way the UFOs behave, in the sense that sometimes they become invisible—supposedly, they can flit in and out of dimensions and things like this—there's a whole strain of ufology that borders on mysticism.

RS: Right.

RG: Then you have the UFO cults, like the ones that formed back in the 1950s in the desert [Giant Rock in Landers, California], so it's this strange sort of Twilight Zone of science where you have this metal machine that supposedly represents advanced scientific technology, but then there's also this supernatural aspect to it.

RS: Where the craft fade away and disappear.

RG: Right. I can see why that would interest you.

RS: You find that a lot, that these spaceships will suddenly just vanish, as if not only from physical speed, but they'll just kind of fade away.

RG: As if they have some type of cloaking device.

RS: Right.

RG: Were you into UFOs before you started developing the invisibility project?

RS: Oh, yes.

RG: Did that figure into your thoughts, wondering how those craft can do that, trying to figure out how to do it yourself?

RS: Exactly.

RG: So what year was it when you got into UFOs?

RS: I'd say I got into them pretty heavily in the 1960s. Unfortunately, I didn't know about Giant Rock for some reason. We didn't have the communication we have now, where you hear on the radio, "Oh, there's going to be a big [UFO] convention in Giant Rock." I would've gone if I'd heard about it. I hadn't heard about Giant Rock or the things going on out there at all. It's unfortunate I didn't. I missed out on some important things. [Laughs]

About the Interviewer:

Robert Guffey is a lecturer in the Department of English at California State University, Long Beach. A graduate of the famed Clarion Writers' Workshop in Seattle, he is the author of a collection of novellas entitled *Spies and Saucers* (PS Publishing, 2014). His first book of nonfiction is *Cryptoscatology: Conspiracy Theory as Art Form* (TrineDay, 2012). He's written stories and articles for numerous magazines and anthologies, among them *The Believer*, *Fortean Times*, *Los Angeles Review of Books*, *The Mailer Review*, *Postscripts* and *Video Watchdog*. His most recent book is *Chameleo: A Strange but True Story of Invisible Spies, Heroin Addiction, and Homeland Security* (OR Books, 2015). His website is www.cryptoscatology.com.

Editor's Note:

Richard Schowengerdt's website is www.chameleo.net.

A TRIBUTE TO: Trevor James Constable

1925-2016

by Thomas Joseph Brown

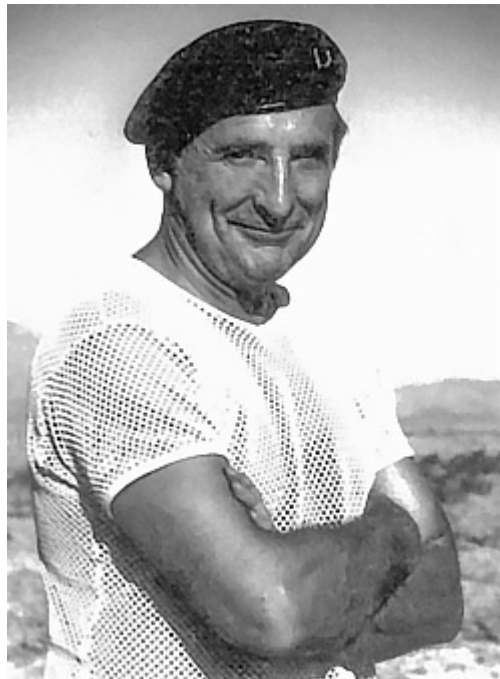
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The passing of a Great Man is an opportune time to honour his contributions and learn from them. Trevor James Constable (17 September 1925 — 31 March 2016) was truly such: a great man whose efforts herald a significant metamorphic progress in humanity's hopeful advancement— if we but take note.

A Trailblazing Etheric Engineer

Trevor James Constable, a man of magnificent vernacular and rhetorical expression, was a consummate professional in all aspects of his life: as a US Merchant Marine radio officer; an aviation historian and author with deep connections into World War II brass from both sides; but most signally, a trailblazing etheric [aetheric] weather engineer, truly a man of persistent advancement and constant accomplishment.

A natural born New Zealander, at 17 years of age Trevor joined the Union Steam Ship Company and took to the seas. He then entered the British Merchant Navy and became Radio Officer on the Queen Mary in 1948. This career path eventuated in his becoming Chief Radio Officer for Matson Lines, plying the waters of the Pacific between the West Coast of America and Hawaii on its flagship, the SS Maui—an opportune status for his less orthodox but more important etheric weather engineering work.



Trevor James Constable
(1925-2016)

His published aviation histories co-authored with Colonel Raymond Toliver (US Air Force, Retired) include titles such as *Fighter Aces of the USA*; *Fighter Aces of the Luftwaffe*, *Fighter General: The Life of Adolf Galland*, and *The Blond Knight of Germany: A Biography of Erich Hartmann*.

In alternative streams of thought, Trevor is noted for his books *They Live in the Sky! Invisible Incredible UFO[s] Around Us*, published under the *nom de plume* of Trevor James, and *The Cosmic Pulse of Life: The Revolutionary Biological Power Behind UFOs*.

I was the editor and publisher of the second edition of *Cosmic Pulse* and produced with Trevor Loom of the Future: *The Weather Engineering Work of Trevor James Constable*, which we constructed in interview format with pictures.

Contact or Covert Operation?

Clearly a great intellect, Trevor joined the Borderland Sciences Research Foundation in the 1950s, where the potential nonphysical "etheric" origins of UFO phenomena were actively discussed.

Trevor connected with George Van Tassel at Giant Rock in the California high desert, where UFO conventions were held, and became fascinated with Van's seance-type UFO communication sessions. Under Van's tutelage, Trevor began channelling UFO entities himself, "blundering in where angels might be terrorised" as he noted.

While some may think "how wonderful" to have such psychic abilities, Trevor found that this led him into a great spiritual test over control of his consciousness, highlighting that this apparently glittering path is no longer an integral component of our spiritual advancement in the present age.

Trevor said it was the greatest spiritual struggle of his life to shut the voices out once they'd started. Initially good technical information came through, and he noted Van Tassel's channelled instructions for the Integratron as an example.

When I was working at the Integratron with Eric Dollard in the 1980s, seeking to reproduce Tesla's Worldwide Wireless, Eric asked me to ask Trevor if the channelling was real or if Van was faking it. Trevor responded that it was very real, at least at the inception. The reason Eric asked is that his mathematical analysis of the Integratron indicated that it was a compacted version of Tesla's Wardenclyffe Tower, designed to broadcast power wirelessly to the world. Captain Bruce Cathie, a good friend of Trevor and a fellow Kiwi, had calculated that the Integratron was built on an Earth Grid node. Clearly, this was all more than chance or a ruse to bilk credulous UFO believers.

However, Philo Farnsworth III, who knew Van Tassel from visits there and from the UFO conventions that used to be held there, told me that he wasn't channelling aliens; rather, the whole set-up was some "spook" operation and that Van was running a clandestine airport for Howard Hughes. We can only wonder, and I digress.

In regard to his channelling experiences, Trevor noted in *The Cosmic Pulse of Life* (1975):

"Suffice it to say that by persisting with the techniques learned at Giant Rock, I set the stage for an irruption of the unseen worlds into a consciousness—mine—not prepared for such an impact. Becoming sensitive suddenly to spectra of vibration with which one is totally unfamiliar can be an unhinging experience. In recent years, the so-called 'psychedelic revolution' has exposed untold thousands of persons to the consequences of chemical tampering with consciousness. All such forcing open of doors is destructive of orderly inner development, no matter what the academic qualifications of its advocates."

Trevor became very psychic, knowing what people would be saying before they spoke, while dealing with the entities who "poured confusing rubbish" into him. Rather than being advancement, he saw it as losing mastery of himself.

Sky Creatures: Living UFOs

Into his life at that time came his teacher, Dr Franklin Thomas, a UFO lecturer and publisher who guided him to sort out the information that had invaded his consciousness:

- that UFOs are spaceships, but not fixed in the physical-material density, therefore generally outside our range of optical perception;
- that the beings of the craft are of various orders, of both beneficial and detrimental attitude towards human development;
- that there is a spiritual war in progress which will determine the course of evolution;
- that there are invisible living beings in space—a space filled with a primary, living energy unknown to orthodoxy; and
- that these entities and craft could be objectified on infrared film.

Trevor then went on to objectify these sky creatures on infrared film, published first in *They Live in the Sky!* (1958). He would go to the desert and perform what is known as the Star Exercise to align himself with the etheric currents flowing in and around the Earth and thereby attract these entities.

This put him at odds with flying saucer folk, even in the offbeat field of ufology. As he would say, "people want physical craft with material beings in them" to satisfy their material consciousness. He referred to the general concept of UFOs as the "carcass in a tin can theory".

Trevor referred to these objectifications as "critters", and he wrote about them in *The Cosmic Pulse*: "As living organisms, critters appear to be an elemental branch of evolution probably older than most life on Earth, dating from the time when the planet was more gaseous and plasmatic than solid. They will probably one day be better classified as belonging to the general field of macrobiology or even macrobacteria inhabiting the aerial ocean we call the sky."

They have been termed by cryptozoologists as *Amoebae constablea* in his honour.

Trevor discovered that these critters are in the infrared range, below the optical wavelengths and above radar, and considered them identical to the causation of radar "angels" which would appear on the screen but not visibly when fighters were scrambled to intercept.

The so-called "NASA UFOs" were of intense interest to him—curious, pulsing discs seen during the 1996 "tether incident" on the International Space Station. Trevor noted that the cameras used were sensitive into the far ultraviolet.

So on Earth we find critters in the infrared, below the optical wavelengths; and in space, above these wavelengths!

Radionics Research

Trevor also worked with the great radionics pioneer Dr Ruth Drown, who built on and refined the works of earlier researchers like Dr Albert Abrams. He took this all very seriously, being a no-nonsense radio engineer. Radionics is considered pseudoscience, yet he experienced its reality. Through the moniker of the Humanitarian Research Foundation, he anonymously published Dr Drown's booklet *Radio Vision: Scientific Milestone* (<http://tinyurl.com/j4y4sx5>).

When Dr Drown was put on trial for fraud, Trevor was a stalwart supporter and wrote an unpublished (and apparently lost) manuscript on her work, *Criminal or Genius?*, the essence of which appeared as a chapter by that name in *The Cosmic Pulse*.

While the concept of radionics has become somewhat inextricably confused with psychotronics, Trevor was clear on Dr Drown's warnings to her students not to let any psychic abilities they may possess or seek to interfere with "the true radionics process". He wrote in his article "The Work of Dr. Ruth Drown" (<http://bit.ly/1YLPNDI>):

"No pains must be spared at this point to lay down with force and clarity that these reactions are gained without the psychic participation of the operator, efforts to use extrasensory perception, or the conscious effort to generate specific thought forms. This type of activity leads into a separate and bewildering realm that the physician especially at all costs must avoid if he is to get accurate diagnosis. Let there be no doubt in the mind of anyone that these instruments, which are sensitive enough to pick up the molecular emanations of physical substances, will react to the operator's thought forms, or to those of others. The operator must set himself aside from the instrument.

Having diagnosis dependent upon the doctor's state of mind, or ESP, or psychic powers, is at this stage of human evolution a cumbrous and unwelcome humbug. The Drown system, and physicians trained in its use, aim at avoiding this.¹

One of Trevor's varied connections was working for an aircraft parts business in California connected to the powerful Kung family of China.

Financier H. H. Kung, descendant of Confucius (Kong Fuzi), who married one of Charlie Soong's daughters, making him brother-in-law to Sun Yat-sen and Chiang Kai-shek, was Trevor's connection to Madame Chiang Kai-shek who became one of Ruth Drown's treated-at-a-distance radionics patients.

Trevor delved deeply into Dr Rudolf Steiner's works and became endeared to the spiritual-scientific etheric physics as propounded by Anthroposophists such as Dr Guenther Wachsmuth (*The Etheric Formative Forces in Cosmos, Earth and Man*) and Dr Ernst Lehrs (*Man or Matter*), for therein he saw a profound and pragmatic metaphysics, one that geared knowledge of higher energies with functional, observable processes in the physical realm.

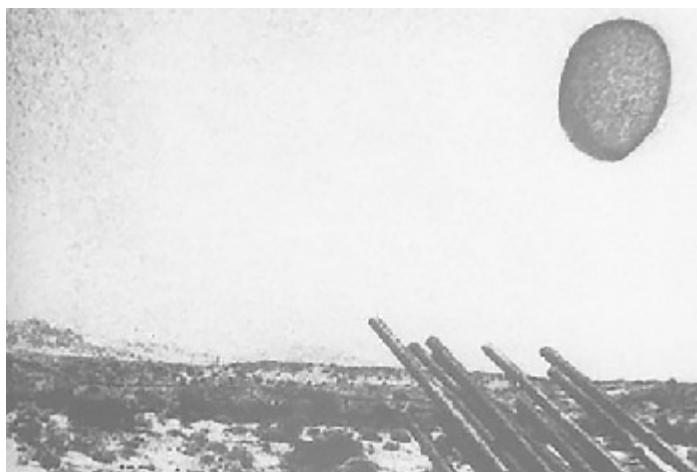
Trevor befriended Rick Mansell, who had come across Steiner via Goethe's colour theory while working in top-secret camouflage research during World War II. Rick spent the last 25 years of his life re-translating Steiner's works onto tape.

Orgone and Weather Control

The works of Wilhelm Reich, MD, on Orgone Energy were also of intense interest and study to Trevor, who, through the Borderland Foundation, connected with fellow member Robert McCullough who was technical assistant to Dr Reich and cloudbuster operator during Reich's OROP desert work.

The towering intellect and practical engineer that he was, Trevor integrated Reich's, Drown's and Steiner's works into functional advancements in human interfacing with the living etheric energies surrounding our planet. While these can be utilised for many purposes, as Drown showed in her clinical works and as Steiner directed in his scientific, sociological and agricultural impulses, Trevor chose the direction of Reich in bringing rain to areas of drought on our planet.

At one point the orthodox Orgonomists regarded Trevor as their darling cloudbuster operator, but once they caught wind that his multidisciplinary approach allowed him to connect the Orgone of Reich with the Chemical or Tone Ether of the Anthroposophists they openly abused him with ad hominem attacks and ejected him from their armoured circle. Trevor took this blow in his stride and continued to move forward, blazing new trails in geometric access to the ether [aether].



This photograph taken by Constable's daughter near a cloudbuster orgone energy transmitter shows an excellent example of the bioform, or "sky fish" as Trevor called it. (Source: <http://tinyurl.com/7konjuh>)

While scientists argued that there is no ether, Trevor would just get on with accessing it geometrically to make it rain or to eliminate smog.

Starting out with the standard Reichian Cloudbuster, his "Willy's Wand" as he christened it, Trevor then went on to batteries of metal tubes with water flowing through them.

With Trevor as Chief Radio Officer of the SS Maui, the Commander at the time, Commodore C. C. Wright, Jr, gave him permission to experiment with his atmospheric translators while at sea.

Trevor was legendary in the US Merchant Marine, not only for the rain that was always following the Maui across the Pacific but also for his ability to utilise his visual ray, which he learned of from Lehrs' Man or Matter, to see ships over the horizon— before they appeared on radar!

He was also noted for what he termed "the Moses effect"—his ability to part fog to aid the ship's Commander to dock more easily, say in Seattle.

General Curtis LeMay, USAF Retired, was quite interested in using this effect on air bases, and just prior to his death he aided Trevor with some southern California smog operations to get into the technology.

Countless hours of time-lapse photographs were taken from the bridge of the Maui, often starting with a clear day. After Constable activated the geometric weather units, rain became an inevitable eventuality (see YouTube video at <http://tinyurl.com/hu7dz9v>).

Etheric weather engineering is more art than science, and we can say that Trevor's work helps guide us towards the time when science and art will again be one, or at least be nourished from the same fount.



One of Constable's non-chemical clean weather modification ground units. (Source: <http://tinyurl.com/jceeuwa>)

His are not mechanical on-off machines, but rather extensions of the operator based on sacred geometric relationships found throughout living forms, utilising the capacitive-type relationships found by Reich to accumulate atmospheric orgone energy. Trevor used these geometric accumulators on sea, land and in the air.

Together with visionary Singapore businessman George Wu, Trevor started a company and took on contingency jobs, to be paid on results. Even though they produced rain, in prodigious amounts on occasion, they were never paid, to the best of my knowledge.

Trevor's etheric engineering also extended to smog control, which some of his equipment was quite good at. He was very concerned about the path humanity is taking, and threw himself into the breach— heart, mind and soul.

"Only results count" was his motto, as he was only concerned with what worked, which is a most wise position while investigating the realm of finer forces.

Cosmic Pulse of Consciousness

Trevor was a long-time member of the Borderland Sciences Research Foundation, and when I took over in 1985 I was generally familiar with his work. I published many of his articles, edited and published the second edition of his *Cosmic Pulse of Life*, and together we produced *Loom of the Future* which was an interview concerning Trevor's epochal etheric rain engineering operations.

He was the cleanest, clearest being, most direct in thought and speech. What Trevor has gifted to humanity can never be fully expressed in words. In my life I can say that everything I do to progress knowledge is shaped by my interactions with this Great Man.

Trevor was totally aware of the cosmic pulses of consciousness and energy which form and drive our successively incarnated consciousness principals.

It is a certitude that Trevor is eagerly advancing in his new stage of discovery. I wish him well in his new appointment, as he would say as others passed on.

About the Author:

Thomas J. Brown is an independent researcher in spiritual science and metaphysics. He is currently producing videos incorporating symbolic structures and extraordinary scientific relationships indicative of higher creative functions in the universe. His occasional writings are posted at his website: <http://thomasbrown.org>.

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Editor's Note:

This is an edited extract from Thomas Joseph Brown's tribute to Constable. To see the complete version, go to <http://tinyurl.com/zdxpeym>. Trevor James Constable's book *Hidden History, Rain Engineering and UFO Reality* (The Book Tree, 2015) is reviewed in this issue. An archive of Constable's work is at <http://www.rainengineering.com> (soon to be updated).

Towards a Moon Base

Leaving Apollo's Legacy Behind

A Mars fly-by is actively promoted as a viable, practical goal, but NASA's two systems for travelling beyond low Earth orbit are not sufficient even to "return" to the Moon. Agency insiders admit that an international collaborative effort is needed to solve human deep-space exploration problems. The Apollo legacy is becoming irrelevant.

by **Phil Kouts**

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Don't worry. Matt Damon won't get stuck on Mars. NASA can't get him there.

— *Washington Post*, 2 October 2015

Where From Here?

The US space agency NASA is currently awash with plans to travel to Mars, although none of the proposals includes a stopover on the Moon. As a result of the cancellation of the Constellation Program, travelling anywhere via the Moon is simply no longer on the cards.

Moreover, the current Mars programs also do not indicate landing on the Martian surface in the foreseeable future. What, then, is the situation regarding human space exploration? Is it the case that human space travel is no longer of interest to the agency? Or has it all become far too dangerous?

The prospect of building a lunar outpost—so enthusiastically anticipated in 2005 (Arch. Study, 2005)—has now moved way beyond any practical proposals. Now the idea is to fly close to the Moon and Mars but without actually landing. So we appear to be even farther away from developing lunar bases than was the case 10 years ago.

Since the outset of the latest plan to return to the Moon, NASA has been working without interruption in two main areas: the Space Launch System (SLS) and the Crew Exploration Vehicle (CEV) known as Orion and also referred to as the Multi-Purpose Crew Vehicle (MPCV).²

These two elements are easily recognisable as a later iteration/version of the infamous Saturn V rocket and the Apollo Command Module (CM). But there is little if any reliance on the seemingly proven Apollo technology with these new systems. (NEXUS, 2015) It is important to understand that, first, these two flight hardware elements will only be sufficient to fly by the Moon, but certainly not enough for any interplanetary deep-space journeys between Earth and Mars; and second, other necessary systems aren't included in NASA's current plans. So what actually can be achieved within the next 10 years or so?

Mars Incentives

Over the last few years, NASA has been actively generating interest in human missions to Mars with considerable passion and enthusiasm. The mainstream media repeat this in virtually all technically related as well as other unrelated magazines, newspapers and TV shows.

The common angle is the new human exploration initiative on a grand scale, comparable maybe only to the legendary saga of the alleged Apollo Moon landings between 1969 and 1972. However, this time no Mars landing is foreseen for at least the next 20 or so years, i.e., not until after the mid-2030s when the agency hopes to send astronauts to fly by Mars.

While developing some fragments of the technical capability and hardware, NASA rightfully admits:

"...The most important challenge for human pioneering missions is keeping the crew safe for long-duration missions up to 1,100 days. Habitats and associated systems and supplies, including food, clothing, atmospheric gases, and human interfaces, represent a significant portion of any exploration architecture. Habitation includes both in-space transit and Mars surface capabilities." (Mars Strategy, 2015, p. 31)

The key element of the hardware is indicated by the term "habitat", which is in fact a mega-concept similar to the International Space Station (ISS) but in this case it is supposed to travel between the two planets.

So the technical problem is defined, but what about actual solutions and what are the likely steps for implementation? The US Government Accountability Office (GAO) states that NASA recently issued a strategy for its

journey to Mars, but “the document does not provide additional details on future exploration missions making it difficult to understand NASA’s vision for what type and how many missions it will take to get to Mars”. (GAO, 2016, p. 17) There is no indication that NASA has any viable plans for developing this.

With the questionable goal of a Mars fly-by some time in the 2030s, the agency has secured a further few years of hopefully unchallenged existence, continuing to develop two basic elements, the SLS and Orion.

However, the informational noise has converted Orion into a universal interplanetary vehicle that seems to be designed to deliver crews to Mars. Titles of recent publications announce, for example, “...Orion Heat Shield...Needed for Destination Mars” and “...Orion craft that could take man to Mars gets metallic heat shield”. (AmericaSpace, 2015; Daily Mail, 2015)

Obviously, while Orion is a compulsory element for manned deep-space trips, it cannot sustain the many months of travel required to take astronauts to Mars. The truth is that primarily it is an Earth return vehicle which, according to its specifications, can serve as a temporary crew lifeboat for 21 days at most. Why, then, tell so many white lies to the public? Apparently the Mars mission proposal is being exploited far beyond the practicality of the situation, with the objective of covering up embarrassing aspects in the agency’s capability and painting a picture way beyond the reality of the circumstances.

It seems that NASA is deliberately implementing its “incremental development strategy” which the agency has been warned about for some time. Evidently, the agency has postponed indefinitely the development of many life-support systems required for human-rated deep-space missions. “...For example, unless NASA begins a program to develop landers and surface systems, NASA astronauts will be limited to orbital missions using the MPCV.” (NASA Audit, 2013, p. ii) Three years after this audit, NASA’s strategy of leaving serious shortcomings in its plans remains largely unchanged.

Orion Today

Meanwhile, the first trial of the Orion CEV on 5 December 2014, the Exploration Flight Test 1 (EFT-1), was hailed as a success. The test flight had a re-entry velocity lower than that required to return from the Moon, with heat exposure for the thermal shield lower than that expected at the return. How significant, then, is such a test result?

With unprecedented openness, NASA has reported on various seemingly incremental changes to be made to the Orion capsule before its next test flight. On closer examination, it appears that NASA is now undertaking serious modifications to Orion.

It is clear that step by step NASA is learning small but vitally important lessons—as if it had never acquired any experience in this area.

The GAO noted recently that “[t]he Orion program continues to face design challenges, including redesigning the heat shield following the determination that the previous design used in the first flight test in December 2014 would not meet requirements for the first uncrewed flight”. (GAO, 2016, p. 10)

The GAO obviously points to the unmanned Exploration Mission 1 (EM-1) flight around the Moon, initially planned for 2018. According to the Apollo record, such an unmanned flight was not needed in 1968 prior to the alleged flight of Apollo 8 straight to the Moon with a crew on board for the first time ever. Now, following 10 years of research and development (R&D), Orion, even without a crew, is deemed unready to undertake such a flight. Where is all that Apollo CM reentry experience?

Re-entry Profile

Lockheed Martin has published a report which describes the landing coordinates of Orion’s first test flight (Lockheed, 2015, p. 9) but remains silent on the distance Orion travelled from entry interface, the so-called “downrange”. An estimate from the limited data available is that the downrange was just under 1,500 kilometres (km).

Therefore it appears that Orion covered a slightly shorter distance than a typical Apollo return, having an initial velocity of 8.9 km per second—substantially lower than that required for a nominal return, i.e., 11.2 km/sec. Yet it is apparently possible to generate an altitude versus traverse graph to estimate the re-entry profile. It appears that the descent profile was close to that identified for the Apollo CM as doubledip “direct” re-entry. (NEXUS, 2015) To some extent the trial seems to be a retro-look into the “virtual reality” of the past.

Another aspect is that it was a trial of higher gravity loads for future crews than those recorded for the Apollo flights. Orion’s maximum deceleration load, 8.2 g, was slightly greater compared to deceleration loads recorded for CM re-entries of Apollo 8, 10 and 11, the largest being 6.8 g. The report concludes that the next test, the EM-1, will introduce “several new capabilities” including skip re-entry. (Lockheed, 2015, p. 14)

It is important to note that today NASA specialists recognise that for NASA a skip re-entry is a new technique which

is yet to be attempted. (NEXUS, 2015) However, on this topic there is a lot of confusion. For example, in his book Chris Kraft, Flight Director for NASA during the Apollo period, says about the Apollo 8 CM that “[i]t had done a skip reentry that bled off excess speed and energy, then dropped through the atmosphere and splashed down a few miles away in full view of television cameras”. (Emphasis added.) (Kraft, 2001, p. 301)

By 2009, Kraft had polished and revised this initial distortion of the story, so it’s evolved into this bold statement:

“Because the velocity is so high, if you tried to come in directly, the heat-shield requirements would be too great. So what we did was get them into the atmosphere, skip it out to kill off some of the velocity, and then bring it back in again. That made the total heat pulse on the heat shield of the spacecraft considerably lower.” (Popular Mech., 2009)

This totally fabricated statement about the Apollo CM’s performance of a skip re-entry, by one of the key players behind Apollo, is a classic example of how the Apollo mythology has been created and perfected over time. Surprisingly, this became a topic of rather unpleasant argument from Apollo astronauts at an Autographica conference, addressed to Chris Kraft personally. (Autographica, 2014)

The most impressive lunar return and re-entry claimed by NASA is, of course, Apollo 13’s emergency return which allegedly demonstrated the robustness of NASA’s approach and its ability to rearrange flight protocols promptly for a safe return. A trajectory adjustment “to aim a spacecraft 40,000 miles closer to Earth”, as the dramatic narration goes, was achieved through just “the barest tweak of the vehicle’s engine”. (Lovell, 1994, p. 150)

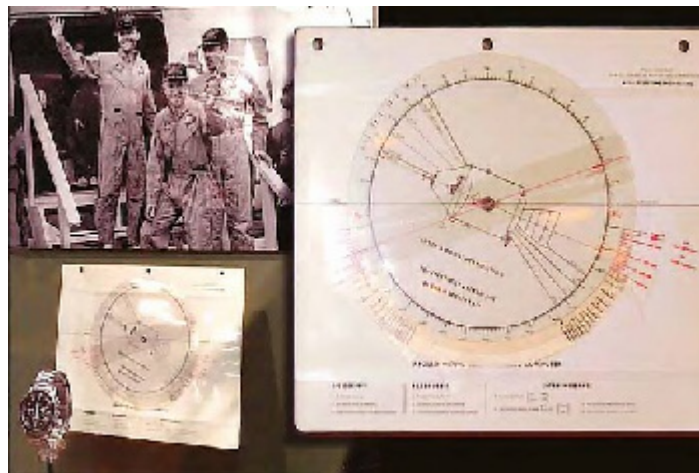


Figure 1: The Apollo 13 navigation chart named “Apollo Visual Pitch & Yaw Attitude Computer, 1960s”, exhibited at Bullock Texas State History Museum, Austin, Texas. At the bottom left is the wristwatch allegedly used by the CM Pilot Jack Swigert to count the critical 14 seconds of burn time for the craft trajectory fine adjustment. (Photo by R Kouts)

On their traverse to Earth, the Apollo 13 astronauts could not see the planet but nevertheless managed to fine tune the course by using a simple navigation chart (figure 1 above). This Apollo 13 navigation chart is now exhibited at the Bullock Texas State History Museum in Austin, Texas. We are supposed to believe that this was a sufficient guide for the manual precision adjustment of the spacecraft course in an emergency.

The exhibit states that “[t]he astronauts completed a manual alignment using the Earth’s terminator line (the line that separates the night and day on Earth)”. This narration complements the story told by the Apollo 13 Commander, Jim Lovell, that the CM was “approaching the Earth from its nighttime side, meaning there would be nothing below in the critical moments before reentry but a dim mass where the planet ought to be” (Lovell, 1994, p. 304), i.e., there was no terminator line visible at the time due to the position of the planet.

So this commander’s version of the adjustment process is even more amazing than the museum’s one and could be compared to scoring a bull’s-eye while being unable to see the actual target. To be fair, the Apollo 13 return navigation record comprises a variety of adjustments using stars and even the Sun; this is worthy of a separate article.

Why is all this so interesting in relation to Orion’s development? The big question is: why does NASA need to learn the skip re-entry technique when it is on record that the agency has successfully demonstrated direct re-entry in the past? The answer is that we shouldn’t undertake returning from deep-space missions using direct re-entry—as this would, in all probability, end up as a fatal disaster. (NEXUS, 2015)

Aerodynamics

Regarding re-entry automation in the Apollo era, an expert engineer from MIT's Instrumental Laboratory, Dan Lickly³, concluded in an interview in 2001 about the action of the astronauts at the crucial period of atmosphere re-entry: "As far as I know, none of them ever touched a manual stick, on reentry, Lickly remembered, for 'they were so beat' after a two-week flight." (Digital Apollo, 2008, p. 160) So we have to conclude that all Apollo re-entries were performed in an automatic regime.

"The Orion entry guidance algorithm is generally based on the Apollo algorithm", so during its re-entry Orion made a number of rather abrupt ("instantaneous") bank angle reversals for descent control (Lockheed, 2015, p. 8) similar to those described in the Apollo mission reports. As always, the Apollo record on this topic is impeccable so no physiological problems were ever encountered by the crews. However, it is quite likely that these manoeuvres could cause physiological problems for the crew, so it is not surprising that a series of tests is now proposed for investigating adverse effects that crews may experience during re-entry. See the section below on "dummies in helmets".

To understand NASA's current technical level, a thorough study of 2005 regarding the agency's capabilities remains the most comprehensive source of data. (Arch. Study, 2005) Regarding a CM return from beyond low Earth orbit (LEO), it is unambiguously stated that there is an important feature, monostability, of the re-entry module which "implies that the vehicle has only one stable trim angle-of-attack in atmospheric flight". This would guarantee that the vehicle reached its desired heat shield forward attitude passively, without assistance from the module control system.

"The Apollo capsule was not able to achieve monostability due to the inability to place the CG [centre of gravity] close enough to the heat shield. Conversely, the Soyuz vehicle is monostable, with claims that it is able to achieve its desired trim attitude and a successful reentry with initial tumble rates of up to 2 deg/sec." (Arch. Study, 2005, p. 261)



Figure 3: Russian Soyuz capsule exhibited at the Chabot Space & Science Center near San Francisco, California. (Photo by P. Kouts)

Aerodynamic stability analysis in the study entails the need "to reorient the vehicle from an 'apex forward' to a 'heat shield forward' configuration for entry" due to the danger that "...the CEV CM, much like the Apollo Command Module, may be bi-stable and have a secondary trim point where the vehicle apex points during entry in the direction of the velocity vector.

Such an orientation is clearly undesirable, as the CEV would be unable to withstand the intense heat of atmospheric entry. If the vehicle's CG can be lowered close enough to the aft heat shield, this trim point can be eliminated and the vehicle will have a single trim point (monostable) where the heat shield points toward the velocity vector.¹ (Arch. Study, 2005, p. 231) It is clear that the Apollo CM did not have this important feature. To what degree, then, was it dangerous to fly home in such a vehicle? The modern trials of the Orion CEV still have to answer this, some 45-plus years after the acclaimed Apollo re-entries that were reported as perfect every time.

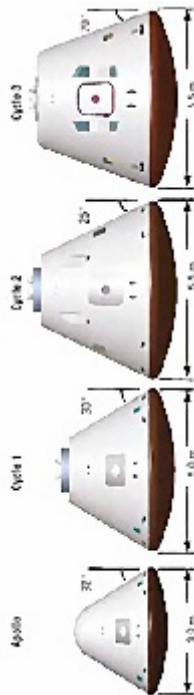


Figure 2: CEV crew module sizing progression as per the Architecture Study. The design and shape of the CEV CM evolved in four design cycles throughout the study, beginning with an Apollo derivative configuration 5.0 metres in diameter and a sidewall angle of 30 degrees (Arch. Study, 2005, p. 224), which is practically the configuration of Orion.

"The design and shape of the CEV CM evolved in four design cycles throughout the study, beginning with an Apollo derivative configuration 5 m in diameter and a sidewall angle of 30-deg." (Arch. Study, 2005, p. 223) This Cycle 1 shape is practically the configuration of Orion (figure 2). The further evolution of the Apollo CM converts Orion's shape into that in Cycle 3 (figure 2), closer to a Soyuz configuration (figure 3) which is more likely to survive re-entry.

Furthermore, NASA, at the Langley Research Center, is going to evaluate the Orion spacecraft and crew safety when returning from deep-space missions, simulating splashdown scenarios "by dropping a mockup of Orion, coupled with the heat shield from the spacecraft's first flight". It is contemplated that a helmet on an astronaut's head may have some adverse influence due to its weight. "Lateral loads contribute to throwing your head side to side so there's an advantage to understanding how the test dummies respond with and without the helmet." (Langley, 2016)

This simplistic set of tests raises inevitable questions as to whether anything at all was ever learned in this regard from Apollo. If, at face value, experimenting with splashdown effects seems to be trivial and out of date, then the suggestion that NASA specialists are concerned that astronauts can suffer due to gravity overloads at re-entry—especially during bank angle manoeuvring, as described above, following several days of exposure to zero gravity—makes complete sense. Then it becomes clear that such experiments with dummies in helmets are really important and necessary. Again, one must note that from any perspective there is little or no reliance on any prior Apollo experience.

Moreover, engineers consider this testing as "one of many steps required to ensure Orion will meet the demands of sending humans to deep space for the first time". (Langley, 2016) A similar review concludes that Orion will "return home faster and hotter than ever before". (Ins and Outs, 2016) What does this mean? Is it possible to make such statements without implying that the Apollo flights did not happen?

Thermal Shielding

The fundamental problem with the heat shield is its integrity and ability to withstand various extreme conditions. It was recognised before the test flight that the Orion heat shield will be made of "...a material known as Avcoat, which was also used on Apollo spacecraft, ...to serve as a protective barrier during reentry into the Earth's atmosphere. Unfortunately, the material has shown tendencies to crack under thermal conditions similar to those the capsule will experience during the mission in the deep space environment prior to reentering the Earth's atmosphere." (NASA Audit, 2013, p. 14)

Not surprisingly, after the test flight the engineers admitted that at the shield manufacturing stage they had already “determined that the strength of the Avcoat/honeycomb structure was below expectations”.

Further, they contemplated that although the heat shield worked as expected for the first limited test, “the EM-1 Orion will experience colder temperatures in space and hotter temperatures upon reentry, requiring a stronger heat shield”. (Orion Update, 2015)

Obviously, nothing has been retained in this regard as valuable know-how from the Apollo period, so another interim unmanned test will be of real value. Given the time span from 2005 to 2018 for the cautious, unmanned trials as planned for Orion, it is hard to see any reliance on knowledge acquired during the Apollo era.

NASA systematically reports on Orion in a seemingly transparent manner, but an unbiased observer can see much ado about nothing created for the sake of gaining more time while learning key things which were supposed to be routine in the past. Following the only test flight of the capsule, the complexity of the thermal shielding was revealed through newly learned details. Two other examples illustrate the picture.

In particular, there were problems with “[t]he compression pads [which] fill in the joints on the heat shield between Orion’s CM and SM [Service Module]. Their purpose is to carry the structural loads generated during launch, space operations, and pyroshock separation (explosive bolts) of the two modules. . . .New and more resilient thermal insulating compression pads. . .are needed because the current 2-D pads used on Orion’s recently completed maiden test flight...are only suitable for Earth orbit return.”

Lockheed Martin’s Orion Program Manager Mike Hawes⁴ clarifies that these pads produce “the risk that you can get separation in the layers when you are using those kinds of 2-D forms that are just all layered together”. An “innovative 3-D woven material” has been developed as “a direct result of lessons learned from Orion’s inaugural mission”. (AmericaSpace, 2015)

It is incredible to think that this lesson wasn’t learned some 45 years ago. What about the same issues on separation of the same Apollo hardware elements?

Another upgrade relates to the so-called grid of tiles on the walls of the CEV capsule, known as the back shell and used for the protection of Space Shuttles. After the test flight it was decided that “the craft will be equipped with a silver, metallic-based thermal control coating which will be bonded to the crew module’s back shell tiles”.

This coating “will reduce heat loss when Orion experiences colder temperatures, and limit high temperatures from when the spacecraft faces the sun”. (Daily Mail, 2015)

Orion is benefiting from protection far greater than that of the Apollo CMs which allegedly operated faultlessly.

Given all the above, one could conclude that for an Apollo-type CM the probability of a safe return on re-entry would be similar to that of walking through pouring rain while dodging droplets in the hope of staying dry. No chance.

NASA is continuing to find new critical aspects for further R&D around Orion, predominantly not because of tighter requirements, e.g., safety, but simply because the agency has at last started to receive genuine information on the real requirements for flights beyond LEO. However, NASA seems to be reluctant to become the first to face the unpredictable and likely hostile circumstances of having humans travel out into deep space. Therefore, the easiest and safest scenario would be for the agency to procrastinate and postpone its actual trials.

Considering the outcome of the first test flight, it is not at all clear how NASA is actually going to test its skip reentry planned for the EM-1, now just two years away. Lately the GAO has indicated the “launch readiness date” for Orion as April 2023, which could mean that the first crewed flight with the EM-2 has already slipped back two years from the earlier pencilled year of 2021. (GAO, 2016, p. 5)

Radiation Doses

The actual record of radiation levels inside the Orion CEV during the test flight on 5 December 2014 states that the maximum absorbed dose rate due to passing through the Van Allen radiation belts “was found to be about 1 mGy/min^[5] [milligrays per minute], 20 times the alarm level for the ISS”. (Radiation Report, 2015, p. 39)

This report further explains that the cumulative absorbed radiation doses measured on the Orion CEV during the EFT-1 mission in December 2014 were about three orders of magnitude or 1,000 times larger than the cumulative absorbed dose as measured during the same period by detectors on board the ISS. Most certainly, the “data provided a preview of the radiation environment that the crew will encounter while transiting the trapped radiation belts on future exploration missions”. (Radiation Report, 2015, p. 39)

It is important to note again that no reference is made to Apollo data, including data on the impact of cosmic radiation, which would have been even richer in detail and more diverse. The Orion test is evolving as if no previous

experience and/or data have ever been acquired beyond LEO.

The data for the total absorbed doses in each Apollo mission, reproduced from NASA reports (Bennett, 2015), appears to be below the doses recorded by radiation sensors aboard the Orion CEV during its flight that lasted just four-and-a-half hours. In particular, the cumulative radiation doses for each of the Apollo 8 to Apollo 17 lunar missions except Apollo 14 are recorded as not more than 5.80 mGy (Bennett, 2015), compared to 13.5 to 17.9 mGy recorded during the EFT-1 in December 2014. (Radiation Report, 2015, p. 23)

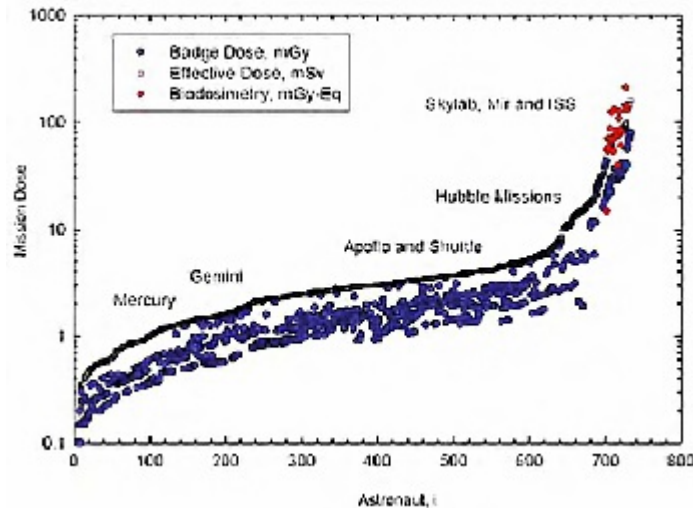


Figure 4: Summary of mission dosimetry for astronauts on all NASA space missions (Radiation Carcinogenesis, 2009, p. 141). "Badge dose" is a dose recorded on an individual dosimeter carried on the astronaut's person.

While the 11.40 mGy cumulative dose (Bennett, 2015) claimed for Apollo 14 is the highest among the Apollo missions, it is still less than that recorded in the Orion CEV data. The lack of comparison and analysis in current radiation research indicates that today's NASA specialists are distancing themselves from the doubtful Apollo legacy. The Apollo data in figure 4 is interspersed among LEO missions (Radiation Carcinogenesis, 2009, p. 141). It is unsurprising that it is considered by specialists to be inconclusive.

Professionals recognise that high doses of radiation can induce significant radiation sickness and even fatality.

They acknowledge that while lower doses of radiation can induce milder physiological symptoms, both high and low doses pose operational risks that are equally critical and possibly life-threatening:

"...Both scenarios have the potential to seriously affect crew health and/or prevent the completion of mission objectives. Radiation protection must be provided in the form of predictive models, shielding, and biological countermeasures when traveling outside of the protective magnetosphere of the Earth. Unfortunately, the development of these tools is hindered by a lack of relevant space radiation research. Most radiation studies focus on radiation species and doses that are unlike the radiation that is encountered in space." (Radiation Syndromes, 2009, p. 186)

The radiation researchers conclude that "[t]here is therefore a pressing need for research that accurately reflects the radiation risks that are native to the space environment and that facilitate the development of both improved risk assessment and effective radioprotective strategies". (Radiation Syndromes, 2009, p. 186)

It is clear that the alleged Apollo radiation data does not meet the criteria for the space environment beyond LEO and therefore is not relevant.

NASA has produced a seven-minute educational clip— which has received an international award—where a NASA engineer admits that its astronauts can't travel safely through the Van Allen belts. (Trial By Fire, 2014) Around the three-minute mark, the engineer states: 03:00: "As we get further away from Earth we'll pass through the Van Allen belts, an area of dangerous radiation."

03:11: "Radiation like this can harm the guidance systems, onboard computers or other electronics on Orion."

03:18: "Naturally, we have to pass through this dangerous zone twice: once up and once back."

03:26: "But Orion has protection. Shielding will be put to the test as the vehicle cuts through the waves of radiation. Sensors aboard will record radiation levels for scientists to study."

03:36: "We must solve these challenges before we send people through this region of space."

But surely, weren't all these challenges already solved when NASA sent astronauts through this region numerous times over 45 years ago?

It is a matter of fact that the unmanned test of 2014 was the very first trial of an entirely new vehicle in this uncharted area.

Moon Base Perspectives

There are no indications that NASA is going to plan and develop a lunar outpost for at least 10 to 15 years. The latter figure is in line with NASA's promise to visit Mars, while any plans for a Moon base remain dormant. On the other hand, in a period of exceptional enthusiasm earlier in the Constellation Program, several proposals were made whereby it would be better to build a base on the Moon first.

One of the Apollo astronauts, Harrison Schmitt, admits in his book that "the world and the United States did not build on the promise of Apollo". (Schmitt, 2006, p. 19) However, inspired by the Constellation Program, he was optimistically focused on the potential of helium-3 as a highly valuable fuel for power generation and therefore he envisaged that by 2030 "there should be a permanent settlement on the Moon, with commercial operations producing helium-3 fuel for a growing terrestrial fusion power industry". (Schmitt, 2006, p. 327) After 10 years of optimistic thinking, there are still no plans for a settlement on the Moon: the scope of NASA's human exploration continues as set out in 2010.

Furthermore, NASA has been forced to develop a human-rated space facility as a result of the clear dominance of Russia in this area. Switching from Soyuz flights to a national delivery vehicle was planned to be accomplished by 2012, but NASA has extended its contract with Roscosmos (the Russian space agency) to transport US astronauts to the ISS to beyond 2018. (Seats on Soyuz, 2015)

The risk of crew loss in the Orion CEV for an ISS destination was estimated as 2.2% in 2012, down to 0.1% in 2016, beating the Soyuz 0.5% benchmark of 2010. (Arch. Study, 2005, p. 581) In 2005 it seemed a realistic plan to develop a CEV for LEO destinations within some seven years (compare this to the length of the Apollo program) and then to go beyond LEO starting from 2017. Instead, only one unmanned test flight has taken place to date.

The current R&D program continues to be focused on the SLS and the Orion CEV, both necessary for deep-space journeys but would also be suitable for visits to the Moon. However, the two systems are not sufficient for a Moon landing because other systems are also required. NASA is no longer considering Moon-landing options since most likely the agency has understood the very high risks associated with lunar landings and takeoffs from "deep" gravity wells. So these tasks have been postponed indefinitely.

As if responding to a recent publication (NEXUS, 2015), NexGen Space, in a study part-funded by NASA, proposes a surprising idea of the so-called Evolvable Lunar Architecture (ELA, 2015), focused on establishing industrial bases on the Moon within some 10 to 12 years following the first future human visit to the Moon envisaged in the ELA. While not deeply technical, the ELA initiative is still bridging ideas in the Architecture Study of 2005 by suggesting a novel administrative strategy which might circumvent NASA's current policy and plans.

The problem is that the initiative is funded by NASA and addresses the agency's masters. The timing of the ELA is conditional upon acceptance of the initiative by the agency and/or by the US government, so the implementation commencement date is still uncertain until the concept is endorsed and adopted.

Yet the ELA initiative is a revolutionary development in that it openly admits that "NASA managers and executives find that their options are eliminated or severely constrained by politics". The question is: what kind of politics dominates so badly and destructively? The document clarifies that "[f]rom the perspective of industry, the U.S. Government is difficult (at best) to develop a long-term partnership with. It costs industry a lot, in...time, money and lost opportunities, to get to a signed contract. Even then the commercial partner cannot be sure the government will not terminate for convenience. Further, every change in the White House, in the Congress, and in NASA's leadership is a source of risk for a commercial partner." (ELA, 2015, p. 84)

As a fundamental solution, the ELA's proponents intend to establish an International Lunar Authority (ELA, 2015, p. 82) independent of governments, thereby allowing flexibility and stimulating competition which in turn would present a cheaper solution for eventually landing humans on the Moon.

Ironically, by criticising those to whom the initiative might appeal, the ELA proposition doesn't ease but rather inflates the tension. Such a revolutionary initiative could never be accepted without a powerful triggering event. When evaluating lunar plans and talking about "a return of humans to the surface of the Moon" (ELA, 2015, Executive Summary), ELA proponents remain in a state of prerevolutionary compromise with their opponent. The triggering event that is needed is an authoritative recognition of the fact that the Apollo Moon landings never happened.

It is also evident that NASA doesn't even want to be the first on the Moon because its attempts will initially put crews at the calibre of risk that the agency faced during the Challenger and Columbia Space Shuttle disasters. In all probability NASA is watching its two major rivals, the Russian and the Chinese space agencies.

These two key players are, in principle, capable of attempting to execute Moon landings, and there is much media discussion over what they are considering doing as an eventual response to the acclaimed American accomplishment. In any event, NASA would rather wait and learn from the experiences of other teams as to what the actual solutions, whether technical or biomedical, might be. If Russian cosmonauts or Chinese taikonauts attempt future Moon landings, it is very likely that their initial attempts will be unsuccessful. Therefore, depending on what happens, NASA could offer its support and collaboration and then join the effort and/or formulate its own program, all without losing face.

It would be fair to say that NASA insiders have started to recognise that streamlining R&D in the area of human space exploration would be achieved far more easily through unprejudiced international collaboration.

Just recently, a noteworthy appeal from former NASA astronaut Leroy Chiao and Space Foundation CEO Elliot Pulham⁶ divulged that "one of the most ill-considered comments to color our discussion, has been "Been there, done that", obviously referring to President Obama's argument of 2010 on closing the lunar visitation program. They conclude that the comment, though without such intent, "flippantly discounted a unique American accomplishment and a unique body of knowledge that the U.S. can bring to the human experience". (Politics of Space, 2016) This bitterly echoes the key concerns in the ELA document pointing to a problem bigger than NASA's inability to plan and execute.

It appears that NASA operates within a catch-22 paradigm: the agency cannot move forward without recognition of its true experiences accumulated in the area of human space exploration, primarily the Apollo legacy, whatever that may be, while on the other hand it cannot reveal the truth about Apollo for various political reasons.

Lunar Trespass Warning

Regarding the Apollo legacy, we know of only a few low-resolution photographs published by NASA as a reluctant response to public requests for Apollo landing site images, while there are no photographs taken by independent observers.

Moreover, instead of looking closely at its own lunar landing experience, amazingly NASA is not interested in learning about what may have happened to the Apollo equipment left on the Moon. It would be natural to monitor each landing site, e.g., with high-resolution cameras or one of its own mini-robots similar to those operating on Mars, and record any changes due to possible meteorite strikes, activity of the Sun and the solar wind, etc.

On the contrary, the agency has issued a warning to all potentially interested parties not to approach the acclaimed landing sites. (Lunar Artifacts, 2011) Taken together with the decision to cancel all programs for returning to the Moon, this suggests a recognition that things have gone seriously awry within NASA.

This NASA warning declares that "[t]he AB [Artifact Boundary] will be established to specifically encompass all artifacts at a particular site to prohibit interaction/visitation within that area in order to protect the artifacts of interest: descent stage, lunar rover, flag, Apollo Lunar Surface Experiments Package (ALSEP) experiments, etc." (Lunar Artifacts, 2011, p. 8)

The document was widely discussed on the Google Lunar XPRIZE website dedicated to a competition for the development of an unmanned mission to the Moon with a mini-robot which, after landing, would be capable of covering a distance not less than 500 metres on the lunar surface. Apparently, NASA is concerned that such a mission might send a robot too near to any infamous Apollo landing sites and disturb the resting place of the US achievements.

"The 2.0 km exclusion radius applies to the descent/approach path of the visiting vehicle." (Lunar Artifacts, 2011, p. 10) So it is prohibited to land closer than 2.0 km to any Apollo landing gear— assuming, of course, it is actually there.

Throughout the document, there are expressions such as "exclusion zones", "buffer distance", "prohibiting visits to any part of the site", "restricted from close inspection by visiting robotic systems", etc.

Why is NASA so concerned, and what would be revealed at the sites claimed to contain genuine Apollo landing platforms and lunar rovers? Why would it be so undesirable for NASA's relics to be examined by independent observers?

The Burden of Apollo

This is the third article in a series questioning NASA's reluctance to develop a Moon base. The first article reviewed two major NASA documents, its Architecture Study of 2005 and the so-called Augustine Report of 2009. (NEXUS,

2014) If the former was enthusiastic and constructive about Moon bases, the latter actually derailed such ideas and mainly advocated abandonment of the Constellation Program.

The first article also demonstrated that the Architecture Study has finally lifted the taboo on criticism of the Apollo hardware.

Soon after the second article was published (NEXUS, 2015), a new collaborative report, focused in line with the article's key suggestions, was released (ELA, 2015). This new report puts the Moon base idea back on track, proposing a truly independent International Lunar Authority—one that NASA will never accept due to its potential to undermine the agency's position.

Further, the recent appeal from Chiao and Pulham confirms that "[t]here are numerous technical, operational and programmatic reasons...to go back to the Moon, as part of the effort to send astronauts to Mars". (Politics of Space, 2016) These two noteworthy documents establish the right framework, but both stop just short of pointing to NASA's main problem: the burden of Apollo.

The Apollo legend continues to be a major hindrance to any further development in the exploration of space. Decades have been lost under NASA's assumed superiority in human space exploration because other agencies have delayed replication on the assumption that the leader has already achieved success. A new generation of NASA specialists has finally admitted that much necessary work is still to be undertaken.

NASA's successes in unmanned space programs are undisputed, while the situation with human space exploration is quite the opposite. With the cancellation of the Constellation Program, profound shortcomings were revealed in NASA's capabilities of flying crewed missions.

Work completed by NASA within the last 10 years on the Orion CEV has shown that the agency is developing an entirely new vehicle based on little previous experience.

It is fair to conclude that no Apollo Command Modules were ever capable of safely returning crews to Earth from deep space. This fact alone should be sufficient for us to infer that all the Apollo landings were faked.

The Orion data on radiation acquired beyond LEO further supports this upsetting conclusion, as the claimed Apollo radiation data is totally irrelevant.

Over the last decade, the question as to whether the alleged Apollo missions were a stepping stone for human progress has received a rather negative answer. Considerable resources are still being wasted supporting the Apollo story. While the US Government Accountability Office is doing a great job monitoring and guiding NASA's programs, it's not sufficient due to the shackles of the Apollo mythology.

All financial investments in this area will be ineffective until the technical and biomedical difficulties are examined as they truly are. Only then will President Kennedy's 1963 bold recommendation to consolidate international efforts to land on the Moon be finally upheld.

A new era in space exploration will only begin after the recognition that the entire Apollo story is a tool of the past, devised to win a political race—as suggested in the film *Interstellar*.⁷

About the Author:

Phil Kouts lives and works in New Zealand. He has a PhD in applied physics and gained considerable experience in applied research, working as a research fellow in universities in the UK and as an R&D manager in private companies. He writes under a pseudonym to differentiate his professional occupation from his interests. His articles "Towards a Moon Base: Has Anything Been Learned from Apollo?" and "Is There Any Hope for a Moon Base?" were published in NEXUS 22/03 (April-May 2015) and 21/05 (August-September 2014) respectively. Phil Kouts can be emailed at philkouts@gmail.com.

Editor's Note:

Due to space constraints we are unable to include the endnotes and references accompanying Phil Kouts' article. To see these and to access hyperlinked sources, go to the website <http://www.aulis.com>.



THE KONGAMATO: Evidence For Living Pterodactyls In Africa

Deep in the bush of East Central Africa lives a beaked, flying creature called the Kongamato. This fascinating animal first received widespread attention when explorer Frank H. Melland described it in his 1923 book *In Witch-bound Africa*. The Kongamato ("overwhelmer of boats") is described as a large, reddish creature with leathery wings, devoid of feathers.

Eyewitnesses who are shown an illustration of the pterodactyl unanimously agree with this identification of the Kongamato.

"The evidence for the pterodactyl is that the natives can describe it so accurately, unprompted, and that they all agree about it. There is negative support also in the fact that they said they could not identify any other of the prehistoric monsters which I showed them.

"The natives do not consider it to be an unnatural thing like a mulombe [demon], only a very awful thing, like a man-eating lion or a rogue elephant, but infinitely worse.

"I have mentioned the Jiundu swamp [northwestern Zambia] as one of the reputed haunts of the kongamato, and I must say that the place itself is the very kind of place in which such a reptile might exist, if it is possible anywhere."

(Frank H. Melland, *In Witch-bound Africa*, J. B. Lippincott Co., Philadelphia and London, 1923, pp. 238, 240)



"The Kaonde people of the NorthWestern Province [of Zambia] used to carry charms called *muchi wa Kongamato* to protect them at certain river crossings from the Kongamato. The creature was described by the Kaonde of old as a huge red lizard with membranous wings like a bat spreading five or more feet [1.5 metres], and with teeth in its huge beak. In the 1920s, Headman Kanyinga from the Jiwundu Swamp area near the Zairean border instantly identified as Kongamato a picture of a pterodactyl.

"Nevertheless, as recently as 1958, the science journalist Maurice Burton wrote in *The Illustrated London News*...that there had been several reports from Africa of a pterodactyl-like creature, with speculation that the Bangweulu Swamps might be one of its habitats. He pointed out that off the coast of Africa, the coelacanth, a deep sea contemporary of the pterodactyl, had been caught by fishermen..."

(Dick Hobson, *Tales of Zambia*, Zambia Society Trust, Londong, 1996, p.149)

"Though dragons have completely dropped out of all modern works on natural history, they were still retained and regarded as quite orthodox until a little before the time of Cuvier.

"For instance, Pigafetta, in a report of the kingdom of Congo [The Harleian Collections of Travels, vol. ii, 1745, p. 457], gathered out of the discourses of Mr E. Lopes, a Portuguese, speaking of the province of Bemba, which he defines as 'on the sea coast from the river Ambrize, until the river Coanza towards the south', says of serpents, There are also certain other creatures which, being as big as rams, have wings like dragons, with long tails, and long chaps, and divers rows of teeth, and feed upon raw flesh. Their colour is blue and green, their skin painted like scales, and they have two feet but no more. The Pagan negroes used to worship them as gods, and to this day you may see divers of them that are kept for a marvel. And because they are very rare, the chief lords there curiously preserve them, and suffer the people to worship them, which tendeth greatly to their profits by reason of the gifts and oblations which the people offer unto them."

"And John Barbot, Agent-General of the Royal Company of Africa, in his description of the coasts of South Guinea [A. and J. Churchill, A Collection of Voyages and Travels, 1746, p. 213], says: Some blacks [are] assuring me that...there are winged serpents or dragons having a forked tail and a prodigious wide mouth, full of sharp teeth, extremely mischievous to mankind, and more particularly to small children."

(Charles Gould, *Mythical Monsters*, W. H. Allen & Co., London, 1886, pp. 201-202)

Dr J. L. B. Smith (famous for his investigation into the living fossil, the coelacanth) wrote in his 1956 book *Old Fourlegs* about flying dragons that lived near Mount Kilimanjaro, Tanzania: "...one man had actually seen such a creature in flight close by at night. I did not and do not dispute at least the possibility that some such creature may still exist."

(J. L. B. Smith, *Old Fourlegs: The Story of the Coelacanth*, Longmans, 1956, pp. 108-9)

A game warden named A. Blaney that a huge creature whose tracks only revealed two feet and a heavy tail was believed by the Kitui Wakamba tribespeople to fly down to the ground from Mount Kenya every night. In Kenya, the creature is called Batamzinga.

(Karl Shuker, *In Search of Prehistoric Survivors*, Blandford, London, 1995, p. 49)

A very credible account was described in 1956 by engineer J. P. F. Brown near Lake Bangweulu, Zambia, and reported in the 2 April 1957 *Rhodesia Herald*. Brown was driving back to Salisbury from a visit to Kasenga in Zaire. He stopped at a location called Fort Rosebery, just to the west of Lake Bangweulu, to get his canteen from the trunk. It was about 6.00 pm when he saw two creatures flying slowly and silently, directly overhead. He observed that they looked prehistoric, with a long tail and narrow head. He estimated a wingspan of about 3-3½ feet [$\sim 0.9-1.1$ m]. One of them opened its mouth, in which he saw a large number of pointed teeth.

Further reports of such odd flying-creatures come from the Awemba tribe that claims they live in caves in cliffs near the source of the great at Fort Rosebery (the same location where Brown had reported seeing strange flying creatures the year before), a patient came in with a severe wound in his chest. The doctor asked him what had happened and the native claimed that a great bird had attacked him in the Bangweulu Swamps. When asked to sketch the bird, he drew a picture of a creature that resembled a pterosaur.

To the west in Cameroon, the indigenous people describe a nocturnal, bat-like creature called Olitiau. Likely the same as the Kongamato, this creature was observed by an exploration team under Ivan Sanderson in 1932. He shot a fruit-eating bat that fell into the water. As he was trying to retrieve it he fell and when he regained his footing, party member George yelled at him to look out. Sanderson saw a black eagle-sized creature with batlike wings and pointed teeth flying at him, so he submerged. When he emerged it was gone. It reappeared and flew at George before it soared away. When they returned to camp, they told the locals about the encounter. The Africans asked the explorers where they'd encountered Olitiau. Sanderson pointed towards the river. The terrified locals ran off in the opposite direction with their guns, leaving valuables behind.

Captain Charles R. S. Pitman wrote a nearly 300-page volume describing the fauna of Uganda and the surrounding regions in great detail. He recorded the locals' superstitious fear of looking upon the wailing tree hyrax at night lest they die (even though they were not afraid to capture the animal in daylight). He then discussed another animal that the natives described.



"When in Northern Rhodesia I heard of a mythical beast, alleged to have a similar death-dealing attribute, which intrigued me considerably. It was said to haunt formerly, and perhaps still to haunt, a dense, swampy forest region in the neighbourhood of the Angola and Congo borders. To look upon it too is death. But the most amazing feature of this mystery beast is its suggested identity with a creature bat- and birdlike in form on a gigantic scale strangely reminiscent of the prehistoric pterodactyl."

(Captain C. R. S. Pitman, *A Game Warden Takes Stock*, J. Nisbet, London, 1942, pp. 202-203)

(Source: PhantomsAndMonsters.com, 30 April 2015, <http://tinyurl.com/mlujzr5>; more information at <http://live-pterodactyl.com/>)

THE THUNDERBIRD RETURNS

Recently, enormous birds have been seen soaring through the skies of Pennsylvania, USA, and in the past they've even been blamed for snatching children from the ground.

On 26 May 2013, two friends were walking through the woods near Bryn Athyn Castle, Pennsylvania, when they were startled by something extraordinary.

"It was extremely loud and I glanced up and saw a huge black bird," Anthony said in his report. "It was sitting above us and we seemed to startle it. It flew about 100 feet [30 m] to a nearby branch. Its wingspan was at least 10 feet [3 m], and judging how far it was it looked to be around four feet [1.2 m] tall."

This is far from the first sighting of such a creature in Pennsylvania. On the evening of Tuesday 25 September 2001, a 19-year-old claimed to have seen an enormous winged creature flying over Route 119 in South Greensburg, Pennsylvania. The witness's attention was drawn to the sky by a sound that resembled "flags flapping in a thunderstorm". Looking up, the witness saw what appeared to be a bird with a wingspan of an estimated 10 to 15 feet [\sim 3 to 4.6 m] and a head about three feet [0.9 m] long.

This is just one more sighting of an incredible creature—most often considered a myth—known as a Thunderbird. Sightings of these gigantic birds, apparently unknown to science, go back hundreds of years and are a part of many Native American legends and traditions. They have even been blamed for abducting, or attempting to abduct, small children. And now they seem to be soaring through the skies of Pennsylvania.

The South Greensburg witness told researcher Dennis Smeltzer that the huge black or greyish-brown bird passed overhead at about 50 to 60 feet [\sim 15 to 18 m].

"I wouldn't say it was flapping its wings gracefully," the witness said, "but almost horrifically flapping its wings very slowly, then gliding above the passing big-rig trucks." The witness observed the creature for about 90 seconds in total, even seeing it land on the branches of a dead tree, which nearly broke under its great weight.

What makes this story more interesting, however, even plausible, is that other sightings of similar description were reported in Pennsylvania in June and July 2001.

On 13 June, a resident of Greenville, Pennsylvania, was startled by the great size of the greyish-black creature soaring overhead, at first thinking it was a small airplane or an ultralight aircraft! This witness observed the bird for at least 20 minutes, clearly seeing its fully feathered body and confidently estimating its wingspan to be about 15 feet and its body length at about five feet [1.5 m]. This bird, too, was seen to perch on a tree for at least 15 minutes before taking to the air again and flying off towards the south.

A neighbour of this witness claimed to have seen the creature the next day, describing it as the biggest bird he'd ever seen.

Less than a month later, on 6 July, a witness in Erie County, Pennsylvania, reported a very similar sighting, according to an item in Fortean Times. Again, the creature's wingspan was estimated to be 15 to 17 feet [~4.6 to 5 m] and the bird was described as: "...dark grey with little or no neck, and a circle of black under its head. Its beak was very thin and long— about a foot in length."

(Source: Paranormal.about.com, 14 February 2016, <http://tinyurl.com/hmzjmrX>.)

BOOKS

Reviewed by Ruth Parnell

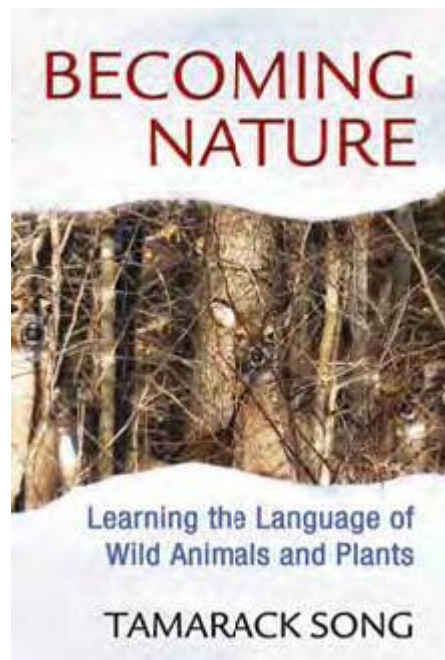
YOU ARE YOUR OWN BEST MEDICINE

by Frederic Saldmann, MD
Healing Arts Press, VT, USA, 2016
(first pub. by Editions Albin Michel, 2013)
ISBN 978-1-62055-429-6 (198pp tpb)
Available: www.HealingArtsPress.com

Often the simplest activities can have profound benefits for health, well-being and longevity. In his easy-to-read book, French physician Frederic Saldmann, MD, combines common-sense practices derived from folk medicine with the latest medical research as well as his knowledge from years of clinical practice to show how we can activate the body's self-healing powers.

Dr Saldmann gives guidelines on losing excess weight, exercising, improving sleep patterns, having a more fulfilling sex life, eliminating stress and depression, training cognitive and memory functions, and more. He has solutions for common health problems including allergies, advice on using pressure point therapies for emergencies and everyday care, and explanations on how mysterious, spontaneous healing forces can be used to advantage.

He cites surprising statistics, e.g., that reducing your daily calorie intake by 30 per cent can increase your life expectancy by 20 per cent, and that exercising for 30 minutes a day can reduce your risk of getting cancer, Alzheimer's and cardiovascular disease by 40 per cent. This is sound, actionable advice for one and all.



BECOMING NATURE

by Tamarack Song
Bear & Company, VT, USA, 2016
ISBN 978-1-59143-211-1 (293pp tpb)
Avail: BearandCompanyBooks.com

Today there's an increasing interest in communicating with animals, and big demand for books and videos by animal sensitives who are able to translate our animal friends' feelings and wishes. Imagine, though, if we could really connect with animals, be at one with them.

This is what Tamarack Song (see 20/06) is conveying in his new book, a guide to becoming one with Nature. Certainly his decades of experience being apprenticed to Native American Elders, learning survival skills and living with wolves helped inform him. While we don't all have to immerse ourselves in the wild, we can take on board his techniques to help us survive in the concrete jungle.

As Song reminds us, we have innate sensory and intuitive capabilities inherited from our hunter-gatherer predecessors; it's just that in our modern world we've lost this perception, although it's still imprinted in our DNA. Song has designed a series of exercises, supported by experiential stories, to help us expand our awareness to include the world around us and the plants and animals within it. He also has solutions for leaving behind our precious electronic gadgets.

Song encourages us to let our imaginations transform us into the animal we seek to become and enter Nature's silence invisibly. Most of us won't ever have the opportunity to interact with animals in the wild, yet Song's wisdom can help us discover that Nature resides within us all.

WILD BY DESIGN

by Margie Ruddick

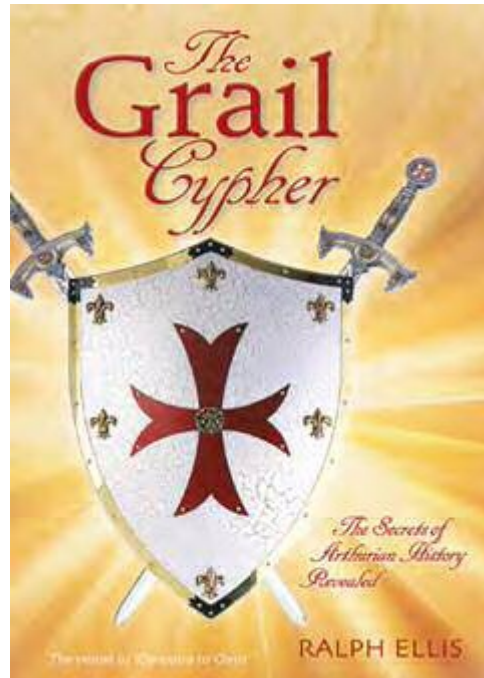
Island Press, DC, USA, 2016

ISBN 978-1-61091-598-4 (249pp tpb)

Available: www.islandpress.org

Internationally acclaimed American landscape designer Margie Ruddick reminds us that the places where we felt great joy as kids probably had wild aspects: a windswept beach, a babbling brook or a woodland grove. She tries to recreate these primal responses in her designs. When she tried this at home, she had to go to court to defend her wild front yard, winning her case, but her experiment led her to ask what makes a landscape wild without being chaotic.

Ruddick applies ecologically sound design principles to her landscape work, e.g., incorporating wetlands that filter polluted water, but she says that filling out sustainability checklists is only part of the picture. Designers need to consider a wild-by-design landscape's cultural and artistic aspects as well as its benefits in terms of habitat, health and stewardship. Ruddick has a strategic approach that may involve elements of reinvention, restoration, conservation, regeneration and expression. She creates projects that grow out of a site, that safeguard natural systems and reconnect people with them. Spaces designed to be wild should still have a beautiful feel, says Ruddick in her well-produced book with colour photographs to inspire landscape designers, landcare managers, urban planners and home gardeners alike.



THE GRAIL CYPHER

by Ralph Ellis
 Edfu Books, UK,
 Adventures Unlimited Press, USA, 2015
 ISBN 978-1-939149558 (660pp pb)
 Available: www.edfu-books.com
www.AdventuresUnlimitedPress.com

It's significant that there's no mention of King Arthur in the historical record or the literature until the 12th century. A detailed study of sources relatively close to Arthur's alleged period led Ralph Ellis to conclude that there had to be a reason. This flowering of Arthurian legend coincided with the return of aristocratic crusading knights to France and nearby countries, which helps account for the legend's taking seed there before being transferred to Britain. This is strange for a myth centred around a British warrior-king. Could it be that Arthur was a real monarch from an era different from that of a Dark Ages hero?

Here Ellis brings in findings from his King Jesus trilogy, in which he concludes that the biblical Jesus was actually King Izas or Manu of Edessa in Syria, who led a revolt against the Romans c. 60 AD—thus suggesting that the New Testament chronology is out by several decades. The story of this messianic Jesus figure with his 12 disciples fits with an ancient cosmology, reflecting the 12 signs of the zodiac and the precessional cycle and tallying with Arthurian legend.

Ellis suggests that the Knights Templar concocted the King Arthur story as a pretext, to explain in hidden language the existence of a local king who fought against foreign oppressors. The truth had to be kept secret because it was totally at odds with Church dogma. A compelling reappraisal of history, linguistics, esotericism and the Grail Quest.

STONE MEDICINE

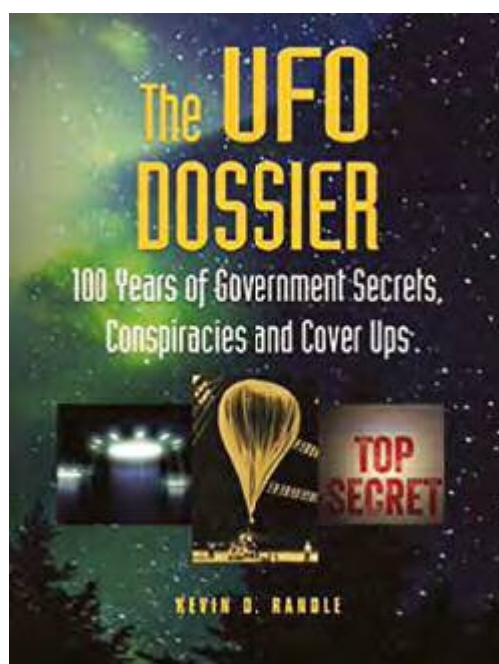
by Leslie J. Franks
 Healing Arts Press, VT, USA, 2016
 ISBN 978-1-62055-529-3
 (495pp + 32pp colour plates hc)
 Available: www.HealingArtsPress.com

Rocks and minerals have been a part of the classical Chinese medicine toolbox for millennia, arguably going back to the Stone Age. It's believed that in studying the veins of Earth minerals, the ancients received insights into the body's meridians and eventually developed acupuncture—initially utilising stone needles. A practitioner of Asian

bodywork for over 25 years, Leslie Franks began her study of Chinese stone medicine in 1995 with her mentor, Dr Jeffrey C. Yuen, whose lineage goes back to c. 200 BC.

In her large-format book with dazzling colour plates, Franks highlights the properties of 200 stones, gems, minerals and crystals as well as 15 types of quartz with reference to their transformative, protective, nourishing, energetic and alchemical properties. She explains that each stone can have physical, emotional and spiritual effects, and that their colour, form, hardness and energetic qualities were understood in ancient Chinese medicine.

Franks shows how to make stone and crystal elixirs for topical and internal use, charge the healing properties of quartz, cleanse and recharge stones, and work with combinations to fine-tune individual healing formulas. Franks also investigates the sacred geometry of crystalline structures in her inspiring yet practical guidebook.



THE UFO DOSSIER

by Kevin D. Randle

Visible Ink Press, MI, USA, 2016

ISBN 978-1-57859-564-8 (415pp tpb)

Available: www.visibleinkpress.com

The UFO cover-up by the US government and its agencies continues, but there's no let-up in reported sightings. Kevin Randle, a retired US Army lieutenant colonel with training in intelligence, has been researching the UFO phenomenon for decades and written many books on the subject.

For *The UFO Dossier*, he provides context to the start of the modern UFO era in the 1940s and revisits reports from the first few decades—reports that the Air Force was keen to explain away as swamp gas, weather balloons or meteors.

When the Condon Committee released its report in 1969, its findings were in keeping with its briefing and the project was closed: there was nothing more to research; officialdom was trying to put a clamp on widespread public interest.

Randle re-examines many of these reports and concludes that some are genuinely unexplained. He discusses photographic evidence, reports from witnesses of stalled cars, and injuries including burns and temporary paralysis experienced in proximity to supposed UFO craft.

Randle turns his attention to lights flying in formation at night, testimony of scientifically trained personnel, and 21st-century cases from the USA and Mexico involving sightings of varied UFO craft and beings. He looks at

responses to the UFO issue by Australian officials as well as French investigators as set out in the 1999 COMETA report. He will welcome the day when the US government discloses what it knows.

SAPIENS RISING

by Neil Freer

The Book Tree, CA, USA, 2015

ISBN 978-1-58509-146-1 (190pp tpb)

Available: www.thebooktree.com

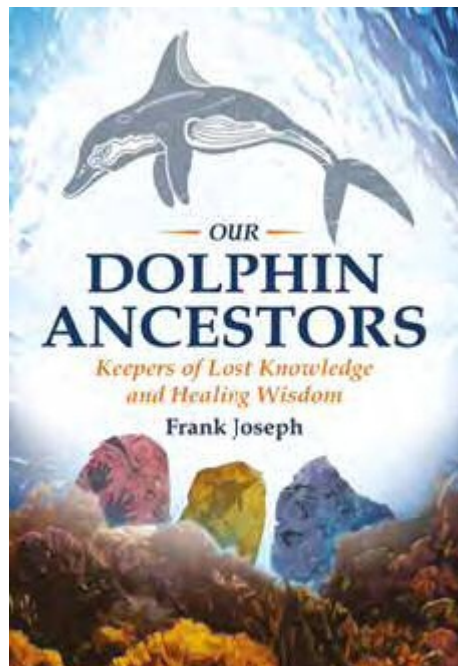
www.thenile.com.au

We're destined to become stellar citizens, but first we must transform our planetary society into one of cooperation, not competition, of peace, not war, and arrive at a new paradigm with the power to unify humanity and move beyond stifling structures.

This is the thesis of futurist, poet and author Neil Freer, an advisory board member of the Exopolitics Institute and a co-director of the Cosmic Humanity think-tank, in *Sapiens Rising* (first published in 2008 as an e-book). Inspired by Sitchin and Gardner, he says we must wake up to our cosmic heritage and the involvement of the Anunnaki in genetically engineering our species. We need to break free of the "godspell Babel-factoring religions" that retain Anunnaki master-slave programming.

Freer asserts that we already have the means to revolutionise our lives with breakthroughs in zero-point and free energy, artificial intelligence, advanced communications and more, but we need to ensure that these innovations are not used for control. He outlines Leary's 24 stages of evolutionary development, and covers exopolitics, "realevolution", ethical concerns and alien civilisations.

Freer finishes with a UFO disclosure proclamation document. It's imperative, he says, that we work to make this grand vision a reality.



OUR DOLPHIN ANCESTORS

by Frank Joseph

Bear & Company, VT, USA, 2016
ISBN 978-1-59143-231-9 (296pp tpb)
Avail: BearandCompanyBooks.com

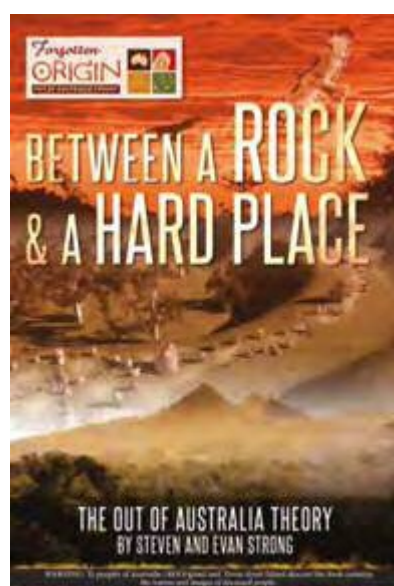
Anyone who has ever made eye contact with a dolphin is touched, as if experiencing a shared humanity. There may be a reason behind this, says Frank Joseph in *Our Dolphin Ancestors* (see 21/03).

The former editor-in-chief of *Ancient American* and author of *Before Atlantis* (20/06), Joseph makes a compelling case, based on scientific studies, for the shared genetic and evolutionary heritage of humans and dolphins. He advances the "aquatic ape" theory, suggesting that the progenitors of humans and dolphins lived at different times on land and in the coastal fringes depending on cycles of inundation.

The "ape" aspect of this heritage has connotations of competitiveness at odds with the aquatic version. Today we retain webbing between our thumb and forefinger, unknown in primates. Vestigial thumbs and legs in dolphin embryos as well as similar birth processes support the association. Dolphins have been part of human lore for millennia; indeed, the Aborigines of Groote Eylandt have a dolphin descent legend.

As Joseph explains, dolphins have phenomenal telepathic, holographic communication and healing abilities and they interact with many other species. They have assisted autistic children to have more meaningful relationships with people and the world around them, and they have even detected cancers.

Dolphins have an oral tradition that humans are only just starting to unravel. Joseph wonders whether in the future we may return to the sea to reunite with our dolphin cousins.



BETWEEN A ROCK & A HARD PLACE

by Steven and Evan Strong

Steven & Evan Strong, Australia, 2016

ISBN 978-0-9945268-0-9 (191pp tpb)

Available: <http://forgottenorigin.com/>

Contrary to mainstream thinking, the "out of Africa" theory doesn't stack up against the latest genetic, anthropological and archaeological findings. According to father-and-son research team Steven and Evan Strong, *Homo sapiens sapiens* originated in Australia and sailed across the oceans, spreading sacred knowledge, as they've described in previous books. Here they draw upon evidence from the Original Elders and Custodians of the Old Way — Aboriginal leaders with whom they have decades-long associations.

One focus of the Strongs' book is the ancient standing stones site atop two artificial mounds in northeastern New South Wales, with its depictions of the Original Language in symbols machined with advanced tools. This site was largely bulldozed in 1940 following its survey by Australian archaeologist Frederic Slater who had access to

translations of the ancient language with its profoundly spiritual orientation (see article in 22/04).

The Stronges also tell of their discovery of a coastal creek jetty from where sandstone was transported by boat to the inland mounds. Many of the remnant rock artefacts show signs of precision tooling, with their smooth surfaces and sharp edges, as well as mysterious markings.

The researchers also have access to engraved stones bearing sacred and/or astronomical symbolism.

They point to the link between the Original Dreaming stories and the Pleiadians. The Elders acknowledge these ancient astronauts in their culture and spiritual mindset. The Stronges are sending a message that needs to be received the world over.

PRIORITIES FOR A PLANET IN TRANSITION

by Gerard Aartsen

BGA Publications, Amsterdam, 2015

ISBN 978-90-815495-4-7 (203pp pb)

Available: www.bgapublications.nl

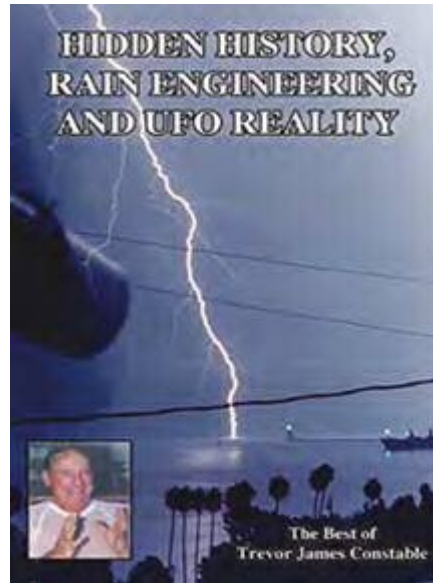
It's undeniable that Earth has been visited by UFOs and beings from other worlds, says Gerard Aartsen, a long-time student of the Ageless Wisdom teachings.

The reality of UFOs can be seen in spectacular recent photographs and video stills that he reproduces, some taken at mass events, some in cities and the wilderness, and others by space observatories and rover craft.

Aartsen thinks we have much to learn from the testimony of the early contactees who met Space Brothers and in some cases boarded their ships and travelled to their home planets. Among these contactees are Daniel Fry, George Adamski (18/02), Wilbert Smith, Howard Menger, Enrique Barrios, Stefan Denaerde, Buck Nelson, Truman Bertherum, and esotericist Benjamin Creme's Master. Their messages are surprisingly similar.

The Space Brothers see humanity in crisis and, while not wanting to interfere with our free will, explain that we need to restore our moral compass, attend to spiritual realities and organise society so that no one is disadvantaged. Much of what they have to say harmonises with the ancient wisdom teachings.

We need to have the will to bring in a new civilisation, and Aartsen takes heart in the local and global movements for positive change that are increasingly springing up. The wisdom from space still resonates.



HIDDEN HISTORY, RAIN ENGINEERING AND UFO REALITY

by Trevor James Constable
The Book Tree, CA, USA, 2015
ISBN 978-1-58509-148-5 (255pp tpb)
Available: www.thebooktree.com
www.thenile.com.au

Trevor James Constable is acclaimed worldwide for his decades of work in rain engineering. Sadly, he died on 31 March, aged 91 (see Thomas Brown's tribute in this issue's [Science News](#) section).

Last year, with help from The Book Tree, he compiled a collection of his work covering book and magazine extracts, interviews, articles from his Singapore-based company website, archival photographs and wartime memoirs of hidden history.

Known, too, for his interest in UFOs, Constable was the first to discover atmospheric plasmoids, which he photographed in infrared and presented in *They Live in the Sky!* (1958). Somehow, this incredible revelation of the existence of large, sentient life-forms in the sky didn't receive the interest he'd hoped for, not even from ufology pioneers.

Constable was influenced by the work of Wilhelm Reich, including his "cloudbusting" discoveries which he didn't come across till years after Reich's death. He addressed the technology in his 1975 book *The Cosmic Pulse of Life* (see 15/06, 10/05). Reich's orgone or chi energy concepts tied in well with Constable's findings.

Constable developed land-based, sea-based and cloud-level devices with underlying geometries to conduct rain engineering using etheric energy principles, not chemicals. His book shows how far ahead of his time Constable was in his environmentally sound, ether-based theories and technologies.

PORTAL TO THE DREAMTIME

by John Koch
XLibris, USA, 2016
ISBN 978-1-5144-4237-1 (300pp tpb)
Available: <http://tinyurl.com/jamll7v>
www.portaltothedreamtime.com.au

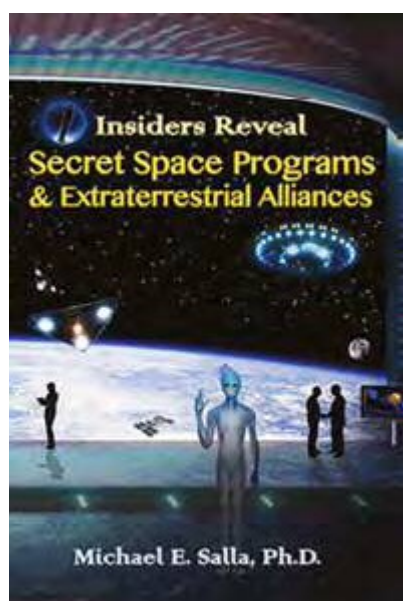
A structural engineer and a clairsentient inspired by the nature spirit communication of the Findhorn community, John Koch was drawn to purchase a large property outside of Melbourne. Soon he perceived that the land has strong geomantic and geographic attributes.

Koch identified sacred places and marked out the energy lines with stones. He became one with Nature, aware of

the Christ Light energy and open to receiving meaningful messages in clouds and experiencing synchronicities. When new friends Charles and Lee turned up in the 1990s, Charles began channelling Wharumbidgi, an Aboriginal Dreamtime spirit who guards this sacred site of the Sleeping Serpent and also works with the Dreamtime Council in spirit.

By combining their energies, the group opened a portal through which Aboriginal souls, trapped on the lower astral plane because of their unresolved anger over their cultural disempowerment brought on by the Europeans, could be released. The energy work that Koch and company conducted may have achieved a shift towards reconciliation of black and white Australia. Charles even had a special encounter with the Rainbow Serpent.

The messages of Wharumbidgi are about the power of love and gratitude and the reality of the spirit world. Portal to the Dreamtime (first published in a limited edition in 2003 and now updated) offers empowering information and a different way of seeing and living in the world.



INSIDERS REVEAL SECRET SPACE PROGRAMS & EXTRATERRESTRIAL ALLIANCES

by Michael E. Salla, PhD
Exopolitics Institute, HI, USA, 2015
ISBN 978-0-9822902-8-6 (410pp tpb)
Available: www.Exopolitics.org

A few whistleblowers are now coming out to tell what they know of secret space programs (SSPs). In his latest book, Dr Michael Salla, founder of The Exopolitics Institute, focuses on the testimony of one insider in particular: Corey Goode, handpicked in childhood, trained as an intuitive empath and recruited for a 20-year tour of duty on several SSPs, after which he was time- and age-regressed to his life as a 16-year-old in 1986 (see 22/05).

Goode makes astonishing revelations about the Vril Society's space program of the 1920s-30s, the Italian scientist Marconi's SSP, the Nazi SS Black Sun's Dark Fleet, the US Navy's Solar Warden SSP, the Interplanetary Corporate Conglomerate set up by Majestic 12, a UN Global Galactic League of Nations, and rogue Special Access Programs (SAPs) with corporate links. He also describes advanced propulsion technologies including temporal drives.

Dr Salla reports on Goode's interactions with a host of ET groups, their alliances and in-fighting, the existence of still-operational SSPs of ancient Earth people, and the Sphere Being Alliance for whom Goode is serving as an Earth representative. In his SSP work, he had access to "smart glass pads" that held data on secret history, science, technology and medicine as well as SSPs and ETs. The testimonies of Michael Relfe in 2000 and Randy Cramer in 2014 fit with Goode's tales of Moon and Mars bases and his age-time regression.

Aerospace designer William Tompkins' Solar Warden recollections (see 23/03), published after Dr Salla's book was released, add credence to Goode's story. (Dr Salla is a speaker via Skype at our 2016 Conference.)

A NEW WORLD — Book 1

by Jonathan R. Banks

Black Rose Writing, TX, USA, 2016

ISBN 978-1-61296-646-5 (506pp tpb)

Available: www.blackrosewriting.com

www.jonathanrobertbanks.com

Humanity is at a crossroads. Our development requires a scientific perspective that goes beyond materialistic, reductionist thinking and embraces a metaphysical world view informed by the truth behind religious, shamanic, mystical and new age knowledge traditions. So says Jonathan Banks, a technological innovator and a corporate peak performance consultant, in the first volume of his three-book series.

Here Banks presents his model of the quantum vacuum as a higher dimension but extended by its cosmological implications and new technological possibilities. It's a new metaphysical scientific paradigm that integrates complexity and higher dimensional physics. It describes the information universe in terms of a quantum computational model of metaphysics based on a new take on set theory. Banks proposes that this informational model can be applied to life in a conscious universe filled with a diversity of higher order intelligences (even God). He cites the work of many innovators who are progressing similar lines of enquiry.

Banks believes there's much to be learned from quantum biology to help in raising consciousness. He says we can't afford not to integrate this new approach if we seek utopia.

DVDs

Reviewed by Richard Giles



EVANESCENT
photographed and produced
by Mark Abriel
for LightWave Films, Byron Bay, Australia, 2014 (60mins)
Available: <http://tinyurl.com/grgjdzm>

In 2000 to 2012, strange and beautiful luminous light and energy forms were seen and photographed by many in the Byron Bay area of northern NSW, Australia.

In 2007, Byron-based photographer, chiropractor and researcher Mark Abriel sent some of his images to Italian astrophysicist Dr Massimo Teodorani, who responded by saying that the Byron light phenomena appeared to be similar to the Hessdalen plasma-like light phenomena researched by him, Professor Erling Strand and other scientists in the Hessdalen Valley in Norway since the 1980s.

Evanescent tells the fascinating story of what may well be the discovery of non-physical, non-carbon-based intelligent life on planet Earth. The footage of the light/energy phenomena will astound you, with many shots of light forms in natural sites both at night and in daylight.

Mark Abriel created the soundtrack of music from Haydn, Beethoven and Rapskallion, with sitar and guitar music, some from Abriel himself.

This exciting presentation of light forms has explanations by photographers, video producers and other experts. Evanescent is a visionary piece of art, showing the magic that surrounds us on every side, slowing it down for our leisurely inspection to expand our understanding of reality itself. A must-see video.



VAXXED:
From Cover-Up to Catastrophe
directed by Andrew Wakefield
and produced by Del Bigtree
for Cinema Libre Studio, USA, 2016 (91mins)
Avail: www.vaxxedthemovie.com

This controversial documentary on vaccination has stunned US audiences and has been banned from several film festivals. It is an investigation into the fraud of the MMR-autism study at the US Centers for Disease Control (CDC) as revealed by senior scientist and whistleblower Dr William Thompson.

In 2013, biologist Dr Brian Hooker received a call from a senior scientist at the CDC who led the agency's 2004 study on the MMR vaccine and its link to autism. The scientist, Dr Thompson, confessed that the CDC had omitted crucial data in its final report that revealed a causal relationship. Over several months, Hooker recorded the phone calls made to him by Thompson, who provided the confidential data destroyed by his colleagues at the CDC. He asked for help from Dr Andrew Wakefield, the British gastroenterologist who in 1998 first reported that the MMR vaccine may cause autism.

Wakefield directs this documentary, examining the evidence behind an appalling cover-up committed by the government agency charged with protecting the health of US citizens.

The DVD has interviews with drug company insiders, doctors, politicians and parents of children allegedly injured by vaccines. An important, must-watch documentary.

MUSIC

Reviewed by Richard Giles



PLANTED

by Moxie

Lyte Records, UK, 2014 (53mins)

Distributors:

Australia—The Planet Co., www.theplanetcompany.com

Ireland—www.moxiemuso.com

UK —www.lyterecords.com

Moxie, formed in 2011, plays commanding 21st-century Irish music. These young, creative musicians fly by their instincts. They play traditional accordion mixed with banjo bluegrass backed by a contemporary rhythm section. All the guys are from Ireland's West Coast.

The members are Cillian Doherty on tenor banjo and guitar, Jos Kelly on button accordion and keyboards, Darren Roche on button accordion, Ted Kelly on tenor banjo and electric guitar, and Paddy Hazelton on percussion. The band has a traditional backbone of western Irish sounds with a progressive world-jazz influence. Rewarding, catchy music.

ROAD TRIP

by Zen Bicycle Band

North Star Music, UK, 2015 (60mins)

Distributor:

UK—RedGoldMusic, www.redgoldmusic.com

Zen Bicycle Band was set up in 2008 and since then has played many concerts. Road Trip features a freeform style of jazz, all the tracks recorded spontaneously. When on stage, the band members connect with their audience, drawing on their sources of imagination so that every performance happens in the moment.

They describe it as effortless music. Dave Robinson is on Eigenharp, percussion and vocals, Paul Cheneour is on flutes and vocals, and Clive Fletcher plays double bass, electric double bass and bass guitar. This is truly enjoyable, flowing jazz.

FLAMES OF LOVE

by Paul Cheneour & Dilly Meah

RedGoldMusic, UK, 2013 (60mins)

Distributor:

UK—RedGoldMusic, www.redgoldmusic.com

These two are modern masters, collaborating in an exploration of Indian music that blends European flutes with traditional percussion.

Paul Cheneour finds a beautiful tone in his instruments, which have a more expressive range than most bamboo flutes, and with Dilly Meah on tabla they play a style called Sufi-Baul fusion, mixing Kirtan and Sufi dervish sounds (see 5/05). Flames of Love offers a generous sonance of improvised music, creating an exquisite and harmonious, ambient atmosphere. Recommended.

THE UNTIED KNOT

by Shooglenifty

Shooglenifty Music, UK, 2015 (57mins)

Distributors:

Aust—The Planet Co., www.theplanetcompany.com

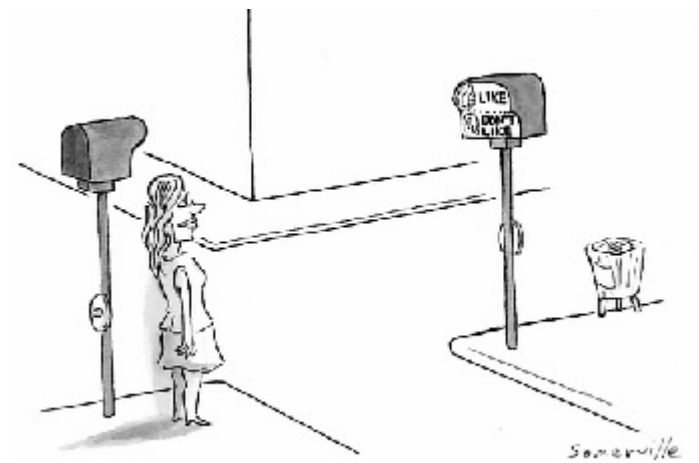
UK —www.shooglenifty.com

Shooglenifty was formed in 1990 by musicians from the Scottish Highlands, Orkney and Edinburgh. Their idea was to fuse traditional Celtic melodies with the beats and bass lines of more contemporary sounds. They play in small Highlands village halls or to tens of thousands on festival stages. They are a treat to behold with their bright, upbeat music (I saw them at the recent Byron Bay Bluesfest).

The Untied Knot is their ninth album. Shooglenifty was nominated by Songlines magazine as Best Group in 2016, and this CD was nominated for Best Album at the 2015 Scots Trad Music Awards. Rousing, upbeat Celtic sounds, moving you to dance.

Cartoons

by Phil Somerville





Sartorville

"There's no easy way to tell you this, son. You're adopted."

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